PRODUCTION.

LAND SETTLEMENT, ETC.

The total area of the	e Stat	e is 56,24 5	,760 acr	es. Th	is comprises-
					Acres.
Lands alienated	in fee	simple	•		26,204,928
Lands in proces					7,252,749
Crown lands	••	••	••		22,788,033
Total	••	••	••	•	56,245,760
The Crown lands co	ompris	e 			
Permanent fores	sts (un	der Forest	s Act)	•	3,682,972
Timber reserves	funde	r Forests	Act)		735,412
State forests an	d Timl	er reserve	s (under	Land	, 100,111
Act)			. (44444		329,385
Water reserves					314,111
Reserves for Ag	ricultu	ral College	es. &c.		87,042
Reserves in the					410,000
Other reserves					356,731
Roads					1,794,218
Water frontages unsold land in	cities	towns, ar			3,428,567
Land in occupat		ider	*		
Perpetual l		• • • • • • • • • • • • • • • • • • • •	• •	• •	91,018
Other lease			• •	• •	53,524
Temporary	grazın	glicences	• •	• •	7,349,405
Unoccupied	• •	• •	• •	•	4,155,698
Total					22,788,083

In the following table are shown the area of Crown lands sold absolutely and conditionally, and the area of lands alienated in fee simple during the last four years.

A portion of the area conditionally sold reverts to the Crown each year in consequence of the non-fulfilment of conditions by the selectors. The lands alienated each year include areas selected in previous years.

ALIENATION OF CROWN LANDS, 1926 to 1929.

		Area o	f Crown Lands	Crown Lands alienated in Fe Simple.			
Year.		Absolutely,	Conditionally to Selectors.		Area.	Purchase	
		at Auction, &c.	Maliee.	Other.	Alca.	Money.	
		Acres.	Acres.	Acres.	Acres.	£	
1926	••	2,832	388,559	93,469	125,765	87,740	
1927	••	3,824	214,609	85,409	214,173	203,414	
1928	••	5,807	344,571	68,686	213,519	188,339	
1929		4,825	310,174	65,294	187,752	114,965	

From the period of the first settlement of the State to the end of 1929 the amount realized by the sale of Crown lands.

Index to the end of 1929 the amount realized by the sale of Crown lands was £35,230,180, which represents an average of £1 ls. ld. per acre for all lands alienated or in process of alienation. Payment of a considerable portion of this amount extended over a series of years without interest, upon very easy terms.

Lands of the next table shows the whole of the unalienated disposal. lands of the Crown remaining for disposal:—

CROWN LANDS REMAINING FOR DISPOSAL ON 31st DECEMBER, 1929.

			Classifi	cation.		_	
Location.		Agricu	ltural and	Grazing.			Total.
	First.	Second.	Third.	Fourth.	Un- classed.	Auri- ferous.	200011
County.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Buln Buln	11,497	44,176	96,535	160	00/:00		152,36
Croajingolong Dargo	2,510	1,756	551,436	••	834,576	13,850	1,404,19
Dargo Cambo	••	••	97,993 203,18 9	900	431,100 364,450	71,400	600,49 568,59
Canjil	::	•••	106,854		360,650	67,000	534,50
Wonnangatta		39	146,333		941,563	",,,,,,,,	1.087.99
Bogong	714	11,409	194,880	1,269	158,724	84,518	1,087,93 451,51
Benambra	· · · · · ·	403	272,784	1,960	313,684	87.810	676 ,6 4
Delatite	100	17,453	180,644	11,990	295,750	60,226	566,16
Moira	546	149	3,479	1,029	•••	امنغوا	5,20
Anglesey Bourke		2,364 162	59,995		••	2,540	64,89
Bourke Dalhousie	• • •	168	905	1 ::	•••	1.055	2,19
Evelyn	19	12,859		1 ::		1,656	14,5
Mornington		1,469	11,560			1,000	13,02
Bendigo	171	787	3,312			4,095	8,31
Rodney	1	88		• •	1.5	2,234	2,32
Borung		502	60,164	•••	••	4,011	64,67
Hadstone	785	1,736 654	2,655	36,662	0.034	10,541	15,71
Lowan Kara Kara	86	1.66	155,586 2,344	30,002	9,614	3,553	202,51
Calbot	221	751	461		••	40,110	6,14 41,54
latchera	20	70	101	::	::	20,110	31,0
Heytesbury		830	154,257			::	155.08
Polwarth	16,252	16,236	29,677	142			62,30
Frant		175	26,105	8,564		l l	34,84
Frenville		467				7,550	8,0
Ripon		380	23,486			3,406	27,2
Normanby	••		123,406 70,001	4,799	15,754	••	123,40
Vuncas Villiers	•••		2,058	4,799	10,754		90,58 $2,08$
Follett	::	1,871	140,292	346	29,136	::	171,64
Karkarooc	::	39		310	20,200	::	1.1,0
Total	32,921	117,109	2,720,391	67,821	3,755,001	465,555	7,158,79
Fhroughout the State	Swarr	or reeleim	ed lands .			- {	104
entongnout the plate			be sold by		•	[1,04 6,86
••		lands ava	ilable for se	election .			5,08
The north-western por- tion of the State	[₹ ,,	,, (suc	h as are suit	able to be	eventually	classified	
OLOH OL OHE DORDE	Į L	fo	r selection)		·		4,333,31
	<u> </u>	* * *					
Total area re					1 to 1 to 1		11,505,10

Much of the land included in the above statement is temporarily leased under grazing licences.

Any person of the age of 18 years or upwards is eligible to apply to select under the Land Acts a prescribed area varying according to the classification of the land—less the area of previous selections.

The Lands Inquiry Branch gives information to intending applicants and issues concession warrants for half fares on Victorian Railways to persons travelling to make inspection or take possession of land.

An applicant may select in the Mallee, under Selection

Area that may Purchase Lease, 640 acres of first class, 1,000 acres of
second class, 1,280 acres of third class, 1,600 acres of
fourth class land, or 4,000 acres of land classed 4A; and, in addition,
may acquire privately an area equivalent to that which he selects
from the Crown.

Grazing licences are renewable annually, and are only granted for waste lands of the Crown until required under the principal sections of the Act. Particulars of such licences at 31st December, 1929, were as follows:—

Number of Licences	• •			$5,\!422$
Area (acres)	• •	• •		7,349,405
Annual Rental	• •		•	£28,368

Transfer of possession of land may receive a clear title, was introduced into Victoria in 1862. The system has been the means of simplifying procedure in connexion with the transferring of land. It gives a title to the transferee free of any latent defect and reduces the cost of dealing in real estate by reason of the simplicity of the procedure. All land parted with by the Crown since 1862 is under the operation of the Transfer of Land Act, and the Crown grant issues through the Titles Office; but, to bring under the Act land that was parted with prior to that year (5,142,321 acres), application must be made accompanied by strict proofs of the applicant's interest in the property. During 1929 there were submitted 334 applications to have

brought under the Act land amounting to 25,914 acres in extent, and to £1,008,188 in value; while the land actually brought under the Act during the year by application was 13,133 acres valued at £1,001,564. Up to the end of 1929 there had been brought under the Act 3,181,634 acres valued at £68,910,620. The area of the land still under the Old Law System at the end of 1929 was 1,960,687 acres.

When application is made to have land brought under Assuran ce the Transfer of Land Act, a contribution to the assurance Fund. fund of 1d. in the £1 on the value of the land is levied on the applicant to assure and indemnify the Government in granting a clear title against all the world, as some other person may have a latent interest in the property, and it may be necessary for the Government to recompense such person out of the fund for the loss of his interest. Receipts during 1929-30 comprised contributions £4,339, interest on stock £4,992, interest on £75,073—advanced under The Protection of Public Buildings Act 1885—£3,003 and repayment of advance to Closer Settlement Fire Insurance Fund, £15,000. During the year £74 was paid out of the fund in settlement of claims, £5.095 as interest on securities under the Special Funds Act 1920, No. 3067, and £50,000 to Consolidated Revenue. The balance at the credit of the Assurance Fund on 30th June, 1930, was £154,197. The amount paid up to 30th June, 1930, as compensation and for judgments recovered, including costs, was £8.738.

CLOSER SETTLEMENT.

Details relating to the operations of the Closer Settlement Board and to the conditions under which settlers may acquire blocks and advances will be found on pages 507 to 510 of the 1928–29 issue of this work.

A complete statement of all estates acquired by the purchased. Closer Settlement Board at 30th June, 1930, including those purchased by the State Rivers and Water Supply Commission (i.e., estates in irrigable areas), will be found in the report of the Closer Settlement Board for the year ended 30th June, 1930.

A summary of the lands acquired, exclusive of estates purchased for discharged soldiers' settlement (vide page 351), is given in the following statement:—

CLOSER SETTLEMENT LANDS ACQUIRED AT 30th JUNE, 1930.

		Purchase						sees.	.	
<u></u>	Area.	Money, including Discount on Stock or Deben- tures.	Total Cost to Date.	Farm Allot- ments.†	Work- men's Homes.	Agricul- tural La- bourers' Allot- ments.	Area Un- allotted.			
Dry Areas.	acres.	£	£	Number.	Number.	Number.	acres.			
Lands purchased (Farms) Crown lands taken	870,634	6,046,726	6,354,006	3,487	4	137	17,892			
over (Farms) Repurchased lands	66,480	29,452	40,542	53		17	40,722			
(Workmen's Homes) Crown lands taken	628	63,133	94,844	••	967	••	12			
over (Workmen's, Homes)	360	7,003	9,180		107		7			
Total Dry Areas	938,102	6,146,314	6,498,572	3,540	1,078	154	58,633			
Irrigable Areas.										
Repurchased lands (Farms). Crown lands taken	172,143	2,248,960	2,419,406	2,525	••	152	10,466			
over (Farms)	922	4,398	4,543	21		••	17			
Total Irrigable areas	173,065	2,253,358	2,423,949	2,546	••	152	10,483			
Total acquired at 30th June, 1930 Less area disposed of under Dis-	1,111,167	8,399,672	8,922,521*	6,086	1,078	306	69,116			
charged Soldiers Settlement Acts	73,191	745,381	745,381							
Total (net)	1,037,976	7,654.291	8,177,140	6,086	1,078	306	69,116			

Includes purchase money, £8,399,672; expenses prior to disposal, £85,926; public works, £393,307; and interest capitalized, £43,616.

Up to 30th June, 1930, the Board and Commission had acquired 314 properties, with a total area of 1,111,167 acres, (including 67,762 acres of Crown lands), of which 69,116 acres were then unallotted. Portions of estates amounting in the aggregate to 53,879 acres have been sold by public competition, and for public reserves without any restrictions, and are not under conditional purchase leases.

The Land Settlement Agreement of 1922 resulted in 238 approved migrants from overseas being settled. Under the agreement of 1925

[†] Not including 676 lessees of farm allotments disposed of under the Discharged Soldiers' Settlement Acts.

between the Imperial and Commonwealth Governments (by which loan moneys are advanced at a very low rate of interest), Victoria, at 30th June, 1930, had received £857,201 for approved settlement schemes at Childers, Katandra, and Maffra-Sale.

Extent of The extent of the settlement effected by the Board up Gloser settlement. to 30th June, 1930, is given in the next statement:—

SUMMARY OF CLOSER SETTLEMENT TO 30TH JUNE, 1930.

Classification of Holdings.	Number.	Average Capital Value.	Average Area.	Total Area.
Dry Areas.	No.	£	Acres.	Acres.
Areas settled-	0.405	1 700	200	000.404
Farms	3,495	1,592	230	802,464
Agricultural Labourers' Allotments	154	131	16	2,593
Workmen's Homes	1,080	89	3	796
Allotments disposed of under Discharged	7.07	1 050	70-	0.000
Soldiers Settlement Acts	181	1,376	195	35,312
Public Competition, Auction, &c		••		48,041
Total area of land settled				889,206
Area of land available for—				000,200
Farm Lands and Agricultural Labourers'	Allotmen	ts		42,460
Workmen's Homes				8
Public Competition, Auction, &c				713
Area of land acquired but not yet available	·			4,411
Loss of area on subdivision (roads, channel				1,304
Total dry areas acquired .				938,102
			1	
Irrigation Areas.	No.	£	Acres.	Acres.
Areas settled—	1 .		I	ļ
Farms	2,243	884	57	129,512
Agricultural Labourers' Allotments Allotments disposed of under Discharged	152	116	6	916
Soldiers Settlement Acts	495	915	64	31,547
Public Competition, Auction, &c				5,838
	` 		·	
Total area of land settled Area of land available for—		••		167,813
Farm Lands and Agricultural Labourers	' Allotmer	ıts		1,158
Public Competition, Auction, &c				475
Area of land acquired but not yet availabl	е			1,920
Loss of area on subdivision (roads, channel			•	1,699
Total irrigation areas acquire	d	•	••	173,065
TOTAL AREAS acquired to 30th June	e, 1930	••		1,111,167

Financial statement of Gloser Settlement. The liabilities and assets of Closer Settlement at 30th June, 1930, are shown hereunder:—

FINANCIAL STATEMENT OF CLOSER SETTLEMENT AT 30TH JUNE, 1930.

		0011	· ·,				
Lia	bilities—						£
	For Loans, Advances, an	d Intere	st (accru	ed)			10,092,316
	Crown Lands taken o						21,067
	Discharged Soldiers'		ent for la	nd taker	over		1,404,471
	Sundry Creditors						56,896
	Reserves, &c.	••	• •	• •			260,843
	iteserves, ac.	••	••	••	••	••	
							11,835,593
Ass	ets—						
	Balance of purchase mor	nev not :	accrued d	lue by les	sees and	others	5,689,734
	Land on hand			J			129,624
	", ", sold unde	er condit	ional nu	rchase le	ases and	l sub-	
	segment	ly vacat	ed Pu	1011-20 10	W. C		206,217
	Balance of advances on			t accomed	due		2,553,741
	Government Securities	mapro vo.		· accraca		•••	100,000
	Balance at credit of Clo	cer Settl	ement Fi	ınd	••	••	213,139
	State Loans Repayment				•.•	• • •	204,846
	Sundry assets (including				vet navo		928,308
	Arrears on land and						020,000
	Principal—	ацуацос	(1005 W	шоады	W TICOCH	£,	•
1	Land				9	82,384	
	Advances	••	• •	••		15,488	
		• •	• •	• • •	٠. ٠	10,400	
	Interest				,	11,985	
	Land	• •	••	• •			
	Advances	• •	• •	• •		300,127	1 000 004
					_		1,809,984
							11 025 502
							11,835,593

At 30th June, 1930, payments by settlers on land and advances amounted to £6,920,320, of which amount £3,488,197 was paid on account of principal and £3,432,123 on account of interest.

Eighty per cent. of the value of the improvements can be accepted as security for arrears.

Arrears secured by improvements			£1,089,255
Arrears secured by principal repair	d on land	1	88,882
Arrears secured by stock mortg	age, lien	on	
crop, or unsecured			529,079
Deficiency on vacated allotments	• •	• •	102,768
Total			£1,809,984

The sum of £7,982,689 had been paid to the Closer Settlement Fund up to 30th June, 1930. Of that amount £4,436,917 had been transferred to revenue to meet interest due to stockholders, £125,000 had been transferred to a redemption fund to replace amounts written off estates re-valued, £103,373 had been invested in securities with the

State Treasury, £1,212,165 had been utilized for redemption and cancellation of stock, and £1,891,936 for capital and working expenditure, the balance at the credit of the fund on 30th June, 1930, being £213,298. The balance of unredeemed securities is now £9,468,096, on which the interest payable amounts to £421,725 per annum.

Up to 30th June, 1930, 15,764 persons had received advances aggregating £4,483,982 to effect improvements, or upon improvements already effected, and 6,309 persons had received advances amounting to £268,731 for the purchase of wire netting.

Discharged Soldiers Settlement Act was passed in 1917. In this and subsequent Acts, now consolidated under the Closer Settlement Act 1928, No. 3656, provision was made for the settlement of discharged soldiers on the land and for other matters. The operation of these acts is under the control of the Closer Settlement Board, with the limitation that the closer settlement areas under irrigation conditions, and situated within an Irrigation and Water Supply District within the meaning of the Water Act 1928, are managed by the State Rivers and Water Supply Commission.

Up to 30th June, 1930, the Closer Settlement Board and the State Rivers and Water Supply Commission had acquired for the settlement of discharged soldiers 2,514,229 acres at a cost of £14,647,039, including 73,191 acres of Closer Settlement land taken over and disposed of under the Discharged Soldiers Settlement Acts. Of these lands 224,080 acres were transferred to civilians under Closer Settlement Acts.

The following is a summary of the lands acquired:-

LANDS ACQUIRED FOR DISCHARGED SOLDIERS' SETTLEMENT TO 30TH JUNE, 1930.

	Агеа.	Cost.
Land purchased (3,510 properties)	acres. 1,763,090	£ 13,360,408
Crown Lands taken over	677,948 73,191	541,250 745,381
	2,514,229	14,647,039 114,011 918,361
Interest capitalized Total cost to 30th June, 1930	•••	143,070
Less land transferred to civilians under Clos Settlement Acts	ser 224,080	2,289,205
Total net area and cost	2,290,149	13,533,276

Extent of Settlement at 30th June, 1930, is given settlement. in the table which follows:—

SUMMARY OF DISCHARGED SOLDIERS' SETTLEMENT TO 30th JUNE, 1930.

	Dry Areas.	Irrigation Areas.
	_	
	acres.	acres.
Area of land settled—Soldiers	1,888,654	5 2,304
Acts)	204,563	19,517
Area of land available	. 213	1,727
Area of land acquired but not yet available		19,483
Sales by Auction, &c	302,203	25,5 65
Total land acquired to 30th June, 1930	2,395,633	118,596
Farms, Number of—		
Soldier Settlers	5,865	1,298
Civilians	990	397
Total	6,751	1,695
Average area—acres	310	42
	£1,630	£753

The number of soldiers settled up to that date was as follow	8 :
On land purchased by the Closer Settlement Board	6,966
On land purchased by the State Rivers and Water Supply	
Commission	$2,\!116$
On Crown Lands—Ordinary and Mallee Areas	1,299
On Crown Lands—Merbein and Nyah Irrigation Areas	161
Soldiers receiving assistance from the Closer Settlement	
Board, on share farming, leasing agreements and	
freehold land	770
Total	11,312

There were 85 blocks available under ordinary Closer Settlement, conditions, for which returned soldiers get preference.

Financial statement of Discharged Soldiers' Settlemen t. The liabilities and assets of Discharged Soldiers' Settlement are shown hereunder:—

FINANCIAL STATEMENT OF DISCHARGED SOLDIERS' SETTLEMENT AT 30TH JUNE, 1930.

Liabilities—			£
For Loans, Advances, and Interest	• •		24,791,734
Crown Lands taken over	• •		542,302
Closer Settlement for land taken	over		239,550
Sundry other liabilities, including	reserve for in	nprovements	263,733
			25,837,319
Assets —			70 400 700
Balance of purchase money not accrued	l due b y lessee	s and others	12,433,530
Land on hand	••.		1 04, 696
" " (sold under Condition	al Purchase	Leases and	
subsequently vacated)	••	••	513,408
Balance of advances on improvements	· ·	due	3,642,866
Balance of lessees' consolidated debt	accounts		1,453,041
State Loans Repayment Fund		•••	241,946
Concession of Interest and Admini	istration expe	enses (State	
and Commonwealth)	••		3,630,532
Sundry assets (including Interest acc	rued but not	yet payable)	293,028
Arrears on land and advances (less			
interest concessions allowed)—			
Principal—		£	
Land		234,374	
Advances and consolidated de	bts	912,008	* * *
Interest—		•	
Land		1,420,600	
Advances and consolidated de	bts	584,781	
Havenous and compositioned as			3,151,763
Suspense Accounts	•••		372,509
			25,837,319

At 30th June, 1930, payments by soldier settlers on land and advances amounted to £7,284,967, of which amount £4,409,082 was paid on account of principal and £2,875,885 on account of interest. The amount of assistance rendered by the Board by way of advances was £9,485,796 to 11,312 soldier settlers.

Concessions granted by the State Government (£3,787,147) and the Commonwealth Government (£4,063,425)—representing interest, administration charges, and losses—have relieved the settlers to the extent of £7,850,572.

The condition of Soldier Land Settlement in Australia has been the subject of an inquiry by His Honour Mr. Justice Pike. He estimated at 30th June, 1927, that the total loss sustained by Victoria was £7,721,891, to which must be added, when ascertained, further losses due to providing home maintenance areas and to the further writing down of indebtedness.

Five Boards have been appointed by the Government to deal with the question of "Home Maintenance" in the following classes of farming:—

- (a) Wheat and sheep in the Mallee.
- (b) Wheat and sheep, other than the Mallee.
- (c) Grazing.
- (d) Orchards.
- (e) Dairying (Eastern Victoria).

As far as practicable, blocks which became vacant in recent years were subdivided and allotted to adjoining settlers to increase their areas.

Further particulars will be found in the Report of the Closer Settlement Board for the year ended 30th June, 1930.

WATERWORKS.

All Victorian waterworks are controlled by official bodies, either State or local. In the following table is given a statement of State expenditure on works under the control of the State Rivers and Water Supply Commission, as well as grants and loans to local bodies. In addition to their receiving free grants, large sums have been written off the liabilities of local bodies. The information appearing below has been largely taken from the Annual Report of the State Rivers and Water Supply Commission.

STATE EXPENDITURE ON WATERWORKS TO 30TH JUNE, 1930.

	•				
and the	Total Advances,	D. 2	Comital	Free	Amount standing
	including Cost of Loan	Redemp- tion Paid.	Capital Written Off.	Head- works.	at Debit, 30th June,
e transfer og skriver og skriver og skriver	Flotation.				1930.
State Rivers and Water Supply Com-					
mission— Completed Works—	£	Ē	£	£	£
Waterworks Districts	4,829,924	49,775	175,055	••	4,605,094
Irrigation and Water Supply Districts Goulburn Channel Works (Free	4,349,628	31,690	575,152	••	3,742,786
Headworks excluded) Pyke's Creek, Melton and Dis-	1,381,266	106		•••	1,381,160
tributary Works Uncompleted or Unallotted Works—	228,849			. •• **	228,849
Mornington Peninsula	764,558		••	••	7 4,558
Koo-wee-rup, Cardinia, and other Flood Protection Schemes	391,980				391,980
Eildon Reservoir and Waranga Reservoir Enlargement Maffra-Sale Irrigation and Water	2,364,176	1,000	••		2,363,176
Supply Districts Millewa Waterworks Districts	1,174,412 495,595	::	••	::	1,174,412 495,595
Red Cliffs Irrigation and Water Supply District	774,693	••	••		774,698
Bellarine Peninsula Campaspe and Loddon River	242,392	• • •	••		242,892
Storages (proposed)	81,191 1,254,548	420		1,254,128	81,191
Free Headworks River Murray Agreement Works	2,135,083				2,135,083 284,200
Surveys, &c	284,200		•••		284,200
Total State Rivers and Water Supply Commission	20,752,495	82,991	750,207	1,254,128	18,665,169
First Mildura Irrigation Trust and	770 700	0.005			110,887
Mildura Urban Trust Other Waterworks Trusts	119,782 1,979,524	8,895 283,111	316,537		1,379,876
Ballarat Water Commissioners	396,990	90,948	2.111		303,931
Other Local Bodies (Municipalities) Abolished Irrigation and Waterworks	418,381	84,561	163,760	• •	170,060
Trusts	32,754	30	32,724	147,046	
Free Grants to Local Authorities Melbourne and Metropolitan Board of	147,046	••	••	171,040	
Works	3,189,934	3,189,934*			
Geelong Waterworks and Sewerage Trust	459,737	300,235			159,50
Total	27,496,643	4,040,705	1,265,339	1,401,174	20,789,425

^{*} Of this amount £800,000 was provided out of Consolidated Revenue, the balance being payments by the Melbourne and Metropolitan Board of Works.

In addition to the capital written off, as shown above, an amount of £579,786 representing arrears of interest was written off by Act No. 1625 of 1899, making the total actually written off the liabilities of the Trusts (Irrigation and Waterworks) and Municipal Corporations, £1,845,125.

The State expenditure on waterworks, as shown in the above table, does not include large sums which have been spent by other controlling bodies out of their own funds. Up to 30th June, 1930, the additional capital expenditure of the bodies mentioned was as follows:—Melbourne and Metropolitan Board of Works, £7,199,831; Geelong Waterworks

and Sewerage Trust, £443,825; and the Ballarat Water Commissioners, £258,172. Smaller amounts have been expended by other municipalities, details of which are not readily available.

IRRIGATION.

Prior to 1905 the management of irrigation in Victoria was in the hands of various Irrigation Trusts, which were Progress of financed by the State. These Trusts drifted into financial difficulties and the State was compelled to assume control. In the year mentioned, by the authority of Parliament, the State Rivers and Water Supply Commission was constituted and entrusted with the management of all irrigation works, except those controlled by the First Mildura Trust. This authority is embodied in the Water Act 1928—which consolidates the Water Acts of 1915, 1916. and 1918, the Ballarat Water Commissioners Act 1921, and Section 5 (2) of the Closer Settlement Act 1922. The chief difficulties under which the Irrigation Trusts laboured were sparse settlement, and the absence of powers to make compulsory charges on the properties commanded by the irrigation channels. Since the assumption of control by the Commission a policy of closer settlement on the lands served by the irrigation channels has been inaugurated and vigorously pushed on, and a system of compulsory rating enforced along with which there has been the allotment of water as a right to properties in channelled areas.

The particulars in the following statement, while not covering the whole of the activities of the State Rivers and Water Supply Commission, will furnish a general idea of the development of water conservation and distribution in Victoria under its administration; also of the value of an efficient water supply to country lands, whether for domestic and stock purposes only, or for the addition of irrigation to lands already so supplied:—

	At 30th June, 1907.	At 30th June, 1930.
		\
Irrigation Districts—		*.
Number of Districts administered	10	33
Number of Districts having Water Rights	Nil	25
Total of such Water Rights	Nil	408,000 ac. ft.
Area under Irrigated Culture	108,000 acres	567,000 acres
Valuation for Rating purposes	£196,000	£776,000
Rural Waterworks Districts—		
Number of Districts administered (excluding		
Coliban)	3	31
Valuation for Rating purposes	£125,000	£1.738.000
Urban Districts—		l at the second
Number of Districts administered	1	70
Valuation for Rating purposes	£5,600	£529,000

An illustration of the influence of closer settlement and the allotment of water rights in extending irrigation is contained in the following table, which shows, for the districts having water rights, most of which are directly affected by the Commission's Closer Settlement policy the areas irrigated in 1909–10—the year in which these two factors were first put into operation—and the average areas for the last five years:—

PROGRESS OF IRRIGATION IN CLOSER SETTLEMENT AREAS.

		Area I	rigated.
District (having allotted Water Right	is).	1909–10.	Average for last Five Years.
Supplied from the Goulburn—	-	Acres.	Acres.
Shepparton		• • •	15,724
South Shepparton		••	4,030
Rodney]	32,356	63,884
Stanhope		2,000	12,777
Tongala		3,000	19,495
Rochester		500	43,139
Echuca North		••	4,650
Dingee			3,920
Tragowel Plains		20,000	47,200
Supplied from the Murray-	.		
Leitchville			3,712
Cohuna		12,000	18,521
Gannawarra	.,	7,825	18,958
Koondrook		5,029	18,378
Swan Hill		5,410	18,534
Nyah		569	2,735
Red Cliffs (two years)			10,275
Merbein		202	7,465
Third Lake (four years)			3,287
Mystic Park			2,709
Tresco			1,367
Fish Point (three years)	••	••	2,091
Supplied from the Werribee-	-		
Bacchus Marsh	1	31	2,597
Werribee		••	7,233
Supplied from the Macallister	r—		
Maffra (two years)			7,683
Sale (two years)	••		3,897
Date (OWO years)	••	<u> </u>	
Total		88,922	344,261

The area under irrigated culture for all kinds of crops in 1929-30 was 566,577 acres, being an increase of 94,882 acres over the area irrigated in the previous year and 151,594 acres above the average of the previous five years. The area irrigated in 1929-30 constitutes a new record, being no less than 89,077 acres in excess of the area in any previous watering. The area irrigated in that year includes upwards of 18,000 acres watered under yearly permits granting authority to divert water from streams throughout the State.

Total area irrigated. The subjoined table shows the total extent of irrigated land in the State in 1909-10 and each of the last five years, and the purposes for which the land was utilized:—

IRRIGATED AREAS: HOW UTILIZED.

Crop.	1909–10.	1925–26.	1926–27.	1927–28.	1928-29.	1929-30.
Cereals Lucerne Sorghum and other annual fodders Pastures Vineyards and orchards Fallow Miscellaneous	acres. 23,715 24,124 8,094 50,541 17,524 4,988 785	acres. 57,987 116,753 37,340 51,345 69,108 5,102 6,050	acres. 40,655 119,721 29,476 131,725 69,042 9,992 5,921	acres. 91,538 121,540 60,104 118,153 71,043 6,727 8,395	acres. 60,880 122,441 41,130 154,459 70,681 11,120 10,984	acres. 93,803 135,111 59,401 186,249 70,265 12,596 9,152
Total	129,771	343,685	406,532	477,500	471,695	566,577

NOTE.—In 1909-10, 8,000 acres, details of which are not available, were irrigated by private diversions, making a total area for that year of 137,771 acres.

Of the total area irrigated in 1929-30—566,577 acres—the percentages devoted to different purposes were as follows:—Pastures, 33; cereals, 17; lucerne, 24; vineyards, orchards, and gardens, 12; sorghum and other annual fodder crops, 10; fallow, 2; and miscellaneous, 2.

Notwithstanding that the Commission did not purchase any additional land for settlement during the year 1929-30, 75 applications from new settlers for irrigation farms were approved on farm allotments which from time to time became available. Sixty-six of the applicants took up farms under ordinary Closer Settlement terms, and six under Discharged Soldiers Settlement Acts, while three were oversea settlers. Additional areas were granted to 78 established settlers, the majority of whom were discharged soldiers.

Applications for transfers from 113 leaseholders were approved.

The following statement shows the land purchased and subdivided by the State, and the extent of settlement on each estate:—

			I	Properti	es Subdi	vided.		
Closer Settlement Estates.	Area of Lands purchased by the State in Acres.	Area in Acres.	Number.	Number of Families thereon when Purchased,	Number of Closer Bettlement mind Blocks.	Average Area in Acres.	Number of Closer Settlement Blocks now occupied,	Present Increase in Number of
Shepparton East Goulburn Rodney Stanhope Kyabram Tongala Koyuga Cornelia Creek Nanneella Echuca Bamawm Dingee Calivil Cohuna Koondrook Swan Hill Nyah Merbein (Crown) Red Cliffs Bacchus Marsh Werribee Hallam Maffra—Sale	14,170 13,400 3,230 21,500 4,600 19,090 4,200 2,500 9,040 3,600 12,000 9,060 12,500 4,800 12,500 4,800 12,500 6,3800 8,300 8,300 33,000 70 10,000 3,300 10,570	14,170 13,400 3,230 21,500 4,500 19,090 4,200 9,040 3,600 13,400 9,060 12,000 8,300 18,000 18	33 218 7 10 41 Pt. 1 18 8 28 29 14 34 8 1 1 1 7 23	29 20 5 13 12 36 8 4 21 10 10 10 16 1 3 11 4 22	377 162 55 272 68 308 4 19 124 20 26 1425 325 417 682 2288 175	35 74 57 68 63 60 10 10 10 10 10 10 10 10 10 10 10 10 10	361 156 46 250 63 295 52 19 119 30 189 15 26 120 105 322 222 223 85 173	333 134 44 235 55 55 19 111 26 16 14 20 110 95 816 67 67 67 87 81 81 81 81 81 81 81 81 81 81 81 81 81
Properties acquired under Section 20, Closer Settlement Act 1928, outside above Estates	216,630 19,540	197,650	304	232	4,134	43	3,970 203	3,738
	236,170				-1-			

Closer Settlement in irrigation areas commenced in 1909, and under the Closer Settlement Act 1912, administration in these areas was placed under the direct control of the State Rivers and Water Supply Commission. At 30th June, 1930, 236,170 acres had been purchased, and 4,173 families settled, or over 17 times as many as resided thereon prior to their subdivision for Closer Settlement.

Dairying is still the main source of production in the irrigation areas, and these areas are proving most suitable for this industry. In the Standard Herd Test conducted by the Department of Agriculture there were 50 herds whose average yield per cow of butter fat exceeded 400 lb., and of these no less than 21 were from the irrigation areas, though these areas contain only 11 per cent. of the cows in the State.

Tobacco is being profitably grown in the Rochester and Shepparton districts, and it would appear that a great expansion in production in the irrigation areas is possible.

Another large crop of dried fruit was harvested this year, the total tonnage being 47,750 tons, as compared with 48,000 tons in 1929. Red Cliffs headed the list with a yield of 17,000 tons, or more than 2 tons per acre of producing vines. It is pleasing to note that there was again an increase in tonnage of dried fruit exported to Canada. At a conference convened by the Federal Government of the States concerned, committees were appointed to further investigate certain phases of the dried fruit industry with a view to its stabilization and improvement in its financial position.

The production of canned fruits this year was a record, the pack for the whole of the State being 21,200,000 tins of apricots, peaches, and pears. Of this quantity no less than 71 per cent. was put up by the co-operative canneries established in the irrigation areas which represents 50 per cent. of the total Australian pack for the past season. The appointment of a Trade Commissioner in Canada has greatly assisted the disposal of canned fruit in that Dominion, and, as similar appointments are being contemplated for the East, it is anticipated that further avenues of disposal for these and other irrigation products

should be successfully opened up in the near future.

Despite damage done by severe frosts in September, 1929, to the citrus orchards in the irrigation areas of the Goulburn and Murray Valleys, large crops are being harvested this year. At Red Cliffs, experiments in re-budding to improve the yield and to obtain standardization of citrus types are being carried out by the Department of Agriculture. Special attention is also being given to producing Valencias that will not revert to the green stage, and if this is successful freshly picked fruits will be available until much later in the summer than at present.

In addition to waterworks for purposes of irrigation, extensive schemes for the supply of water for domestic and stock purposes are under the control of the State Rivers stock purposes and Water Supply Commission. Altogether, the area within the State so supplied is approximately 24,239 square miles—about 28 per cent. of the total area of the State. The major portion so supplied is in the Mallee and Wimmera districts.

The number of towns supplied with water, exclusive of the City of Melbourne and its suburbs, is as follows:—92 towns of a total population of 118,600 supplied by the Commission, 110 towns with a total population of 193,000 supplied by Waterworks Trusts, and 17 towns with a

total population of 77,200 supplied by Local Governing Bodies.

STORAGE AND SUPPLY SCHEMES.

In 1902 the total capacity of storages in the State was 172,000 acre feet. The present capacity is 1,273,920 acre feet, which has been temporarily reduced during repairs to Eildon Reservoir. When the Wimmera Storages and Glenmaggie and Eumemmerring Reservoirs are completed, the total capacity will be

about 1,351,520 acre feet. The Hume Reservoir, in course of construction, will, unless otherwise decided by the Commonwealth and State Governments, contain 2,000,000 acre feet, half of which can, subject to the provisions of the River Murray Agreement, be credited to the State of Victoria. The following statement sets out the capacities of the various storages in the State:—

* * .		EXISTING ST	ORAGES.			
Carlbanna Carton				•	Capacities	
Goulburn System-					Fee	ū.
Goulburn Weir	• • •	• • • • •	••	• •	20,700	
Waranga	0 f 4 -	···	• •	• •	333,400	
Eildon (200,000	o acre reet di	ırıng repair)	• •	• •	306,000	000 100
Manuala Taddon C	Taradana					660,100
Murray-Loddon S	ystem—	000 000			F0 000	
Hume Reservo	ir (part of z,	ooo,ooo acrea	eetnaii si	nare)	50,000	
Kow Swamp	• •	••	••	• •	40,860	
Laanecoorie	T . T	••	• •		14,000	
Kerang North-	west bakes	•••	••	• • •	92,000	
Lake Boga	• •	••	• •	• •	28,000	
Long Lake	• •	••	• •	• •	3,820	000 000
Winaman Mallan	G. at.					228,680
Wimmera-Mallee					45 400	
Lake Lonsdale	• •	••	• •	••	45,480	
Wartook	••	••	••	. ••	23,800	
Fyans Lake	• •	••	• •	• •	17,100	
Taylors Lake		••	• •	• •	30,000	
Pine Lake (par	t o <u>f 62,000</u> a	cre feet)	• •	• •	52,000	
Lower Wimmer		••, ••		• •	2,870	
Batyo Catyo (A	•	or)	• •	• •	5,000	
Lake Whitton		· <u>·</u>			1,300	
Earthen Storag	es, Township	Reservoirs, a	nd Mallee I	anks	5,610	
Maffra-Sale Syste	em			•		183,160
Glenmaggie Res		of 150,000 acr	e feet)			104,500
			·			
Coliban System—	•		- 1	· · · <u>-</u>	05.500	
Upper Coliban	••	•••		• •	25,700	1.5
Malmsbury	:•	••	• •	• •	12,300	
Subsidiary Res	ervoirs	••	••	• •	6,930	44.000
				•		44,930
Werribee-						
Pykes Creek	• •	••	• • •	• •	21,000	
Melton	• •	••	• •		17,000	
m 11 ' 12 ' 1	. ~					38,000
Bellarine Peninsu	ua system-–					
Wurdee Boluc	• • •	••	••	• •	10,000	
Service Basins	• •	••		• •	. 260	10.000
	7 . 0		•	-		10,260
Mornington Penin			.			
Beaconsfield, F	rankston, an	d Mornington	Reservoirs	• •	1,560	
Service Basins			••	••	180	
Eumemmerring	Reservoir (I	oart of 3,100 a	cre teet)	• •	1,000	
7.00				•		2,740
Miscellaneous—						
Wonthaggi	••	•• • • • • • • • • • • • • • • • • • • •	• •	••	• •	1,5 5 0
* 4			ñ.			7.000.00
	rotal capac	ity of existing	otorages	• •	••	1,273,920

Additional Storage being Provided by Works in Course of Construction.

Wimmera-Mallee System—	Capacities in Acre Feet.
Pine Lake (balance of 62,000 acre feet) Green Lake	10,000 20,000 30,000
Maffra-Sale System-	. 00,000
Glenmaggie Reservoir (balance of 150,000 acre feet)	45,500
Mornington Peninsula System— Eumemmerring Reservoir (first stage—balance of 3,100 acre	e feet) 2,100
Murray System—	
Hume Reservoir, at junction with Mitta River, half-si balance of 2,000,000 acre feet	950,000
Total capacity of storages when works in hand an pleted	2,301,520

Detailed descriptions of the various systems which have been instituted for irrigation and for supplying water for domestic and stock purposes appear in *Victorian Year-Book* 1928–29 (pp. 526 to 534).

The Mildura Irrigation Settlement, on the River Murray, was established in 1887 under the management of the Chaffey Brothers Limited, and in 1895 the control of the water supply was vested in the First Mildura Irrigation Trust. Water is obtained by pumping from the river. The extent of watering done represented 42,230 acres in 1925–26, 42,134 acres in 1926–27, 48,536 acres in 1927–28, 52,726 acres in 1928–29 and 51,780 acres in 1929–30.

The receipts and payments of the Mildura Irrigation Trust during the year ended 30th June, 1930, were as follows:—

RECEIPTS AND PAYMENTS OF FIRST MILDURA IRRIGATION TRUST, 1929-30.

Receipts.		£	Payments. £
Horticultural Rates		34,454	Wages and Salaries 17,765
Special Waterings, &c.		3,319	Firewood 14,854
Miscellaneous		3,903	Interest, Sinking Fund and
			Depreciation 2,670
5.			Miscellaneous 8,262
Total	••,	41,676	Total 43,551

METEOROLOGY.

Particulars in regard to climate and weather conditions have been furnished by the Commonwealth Meteorologist, and are given in the following tables. In the first are shown the rainfall for each of the years 1927, 1928, and 1929, and the average yearly amount of rainfall deduced from all available records to December, 1929, in each of the 26 river basins or districts constituting the State of Victoria:—

RAINFALL.—YEARLY RECORDS AND AVERAGES.

	Rainfall.						
Basin or District.	Du	During the Year—					
	1927.	1928.	1929.	Average to December, 1929.			
	Inches.	Inches.	Inches.	<u> </u>			
Clause and Wasses Disses				Inches.			
Glenelg and Wannon Rivers	22.33	29.86	26.89	26.35			
Fitzroy, Eumeralla, and Merri Rivers	24.11	28.10	30.80	28.07			
Hopkins River and Mt. Emu Creek	19.45	28.53 28.17	26.25	24, 86			
Mt. Elephant and Lake Corangamite	19.91		25. 25	25.73			
Cape Otway Forest	34.36	42.28	45.84	39.34			
	17.05	25.92	23, 95	23.86			
Werribee and Maribyrnong Rivers	16.53	24.77	23.55	23.31			
Yarra River and Dandenong Creek	25.22	33.71	39.56	33.91			
Koo-wee-rup Swamp	25.82	34.18	37.80	35.78			
Takan Alianthan and Dan	$31.69 \\ 30.84$	41.66	38.35	38.82			
	20.37	40.68	39.73	38.21			
MC 1 II TO	$\frac{20.37}{24.21}$	24.64 29.29	20.80	24.27			
67 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\begin{array}{c} 24.21 \\ 25.22 \end{array}$	29.29	21.11	25.92			
Snowy Divos	35.18	35.79	22.76	27.38			
Snowy River	10.43	20.88	31.95 14.62	34.36			
Murray River Mitta Mitta and Kiewa Rivers	30.29	33.45	25.56	16.74			
O D:	25.97	37.98	25.50 27.75	33.21			
O 11 D:	18.14	29.62	$\frac{27.75}{22.25}$	33.42			
O D:	14.77	27.56	18.76	26.21			
Loddon River	12.94	23.98	15.35	22.74			
	11.28	18.92	11.13	19.98			
Avon and Richardson Rivers	11.28	16.73	10.63	16.88 15.43			
Eastern Wimmera	15.82	21.71	10.03 18.72	21.20			
Western Wimmera	16.09	20.09	17.97	19.81			
Mallee	6.85	12.79	8.23	12.45			
Weighted Averages	18.58	26.04	21.80	24.1 2			

The wettest portion of the State is the Cape Otway Forest, which is closely followed by the South Gippsland district and the Latrobe and Thomson Basin. The lowest rainfall occurs in the Mallee district, where it averages 12.45 inches per annum, as compared with 24.12 inches for the whole State.

An estimate of the areas of the State, in square miles, subject to different degrees of rainfall was first made in 1910. More comprehensive data has since become available, and in 1925 the Commonwealth Meteorologist issued the following revised figures:—

DISTRIBUTION OF AVERAGE RAINFALL.

			Rainfall.			Area.
Incl	108.			 		Square Miles.
Under 15				 		19,270
	٠			 		13,492
20 to 25				 		14,170
25 to 30		• •		 		15,579
30 to 40				 		14,450
40 to 50				 		7 ,3 38
50 to 60				 • • •		2,980
Over 60						6 0 5
						-

The rainfall recorded for each quarter of 1929 and the quarterly averages up to 1929 deduced from all available records are as follows:—

RAINFALL—QUARTERLY RECORDS AND AVERAGES.

							,	
				cond irter.	Third Quarter.			urth irter.
Basin or District.	Amount.	Average.	Amount.	Average.	Amount.	Аувгаде.	Amount.	Average.
Glenelg and Wannon Rivers Fitzroy, Eumeralla, and Merri Rivers Hopkins River and Mt. Emu Creek Mt. Elephant and Lake Corangamite Cape Otway Forest Moorabool and Barwon Rivers Werribee and Maribyrnong Rivers. Yarra River and Dandenong Creek Koo-wee-rup Swamp South Gippsland Latrobe and Thomson Rivers Mitchell River Tambo and Nicholson Rivers Mitchell River Tambo and Nicholson Rivers Murray River Murray River Murray River Mutta Mitta and Kiewa Rivers Ovens River Goulburn River Campaspe River Loddon River Avoca River Avoca River Avoca River Avoca River Sastern Wimmera Western Wimmera Western Wimmera Mallee District	inches. 3.31 3.62 4.43 6.20 4.42 6.20 7.66 9.7 9.16 6.95 4.61 4.01 4.06 5.42 2.98 3.21 2.98 2.38 2.38 2.38	inches. 3.64 4.29 4.26 4.63 6.02 4.79 5.19 7.07 7.93 7.31 6.41 6.77 1.3 8.11 6.17 5.58 4.11 8.289 2.68 3.03 2.51	inches. 9.85 10.09 8.24 7.97 16.48 7.00 11.99 11.27 12.12 12.63 5.40 5.34 7.88 10.49 8.20 7.14 5.33 5.73 6.266	inches. 7.91 8.28 7.09 6.42 5.93 8.66 9.80 10.73 9.80 5.43 5.80 6.44 8.93 4.88 8.90 9.86 6.44 6.43 6.17 3.58	inches. 7 · 82 9 · 21 6 · 05 · 78 11 · 88 5 · 23 8 · 54 9 · 23 8 · 54 9 · 23 8 · 54 9 · 23 8 · 54 4 · 02 3 · 97 4 · 02 8 · 07 8 · 74 4 · 02 2 · 36 1 · 96 5 · 20 1 · 96 5 · 20	inches 8 · 95 9 · 33 7 · 70 7 · 92 13 · 13 6 · 74 6 · 23 9 · 14 1 · 23 1 · 1 · 23 1 · 1 · 23 1 · 1 · 23 5 · 90 6 · 70 4 · 70 9 · 70 4 · 70 8 · 6 · 95 6 · 95 6 · 95 6 · 95 8 · 95	inches. 5 91 7 88 7 53 7 08 11 28 7 47 11 48 10 33 8 53 10 43 6 82 6 83 6 83 6 83 6 83 6 83 6 83 6 83 6 83	inches. 5:85 6:17 5:81 6:13 8:50 6:91 5:91 5:91 6:07 6:55 7:32 3:763 7:18 6:05 4:80 4:34 6:64 2:83
The whole State	3.65	4.46	6.99	6.48	5.24	7.27	5.92	5.61

The averages of the climatic elements for the seasons in Melbourne deduced from all available official records are given below:—

AVERAGES OF CLIMATIC ELEMENTS IN MELBOURNE.

Meteorological Elements.	-Spring.	Summer.	Autumn.	Winter.
Mean pressure of air in inches	29.969	29.922	30.079	30.077
Monthly range of pressure of air-Inches	0.892	0.766	0.818	0.975
Mean temperature of air in shade—°Fahr.	57.7	66.6	59.3	50.0
Mean daily range of temperature of air in				
shade—°Fahr	18.6	21.1	17.3	13.9
Mean relative humidity. Saturation=100	66	60	69	76
Mean rainfall in inches	7.25	5.93	6.57	5.74
Mean number of days of rain	38	24	34	42
Mean amount of spontaneous evaporation				
in inches	10.27	17.34	7.90	3.66
Mean daily amount of cloudiness-Scale				
0 to 10	6.0	5.2	5•9	6.4
Mean number of days of fog	1	1	6	12

In the subjoined statement are shown the yearly averages of the climatic elements in Melbourne for 1929 and for the last 74 years, as well as the extremes between which the yearly average values of such elements have oscillated in the latter period:—

YEARLY AVERAGES AND EXTREMES OF CLIMATIC ELEMENTS.

שרומ	MIDNIO.			
	Ye	arly Averag	es and Extrer	nes.
Meteorological Elements.	Year 1929.	Average for 74 Years.	the Yearl Values have	tween which y Average e oscillated years.
,		74 Itals.	Highest.	Lowest.
Mean atmospheric pressure (inches)	29.993	30.012	30.106	29.945
Highest ,, ,, ,,	30.605	30.606	30.770	30.488
Lowest ,, ,, ,,	29.146	29.249	29.495	28-942
Range (inches)	1.459	1.357	1.719	1.104
Mean temperature of air in shade			- 120	
(°Fahr.)	58.2	58•4	59•9	57.3
Mean daily maximum (°Fahr.)	66.6	67.3	69.0	65.4
Mean daily minimum ,,	49.8	49.6	51.2	47.2
Absolute maximum ,,	101.1	105.0	111.2	96.6
Absolute minimum,	29.2	30.8	34.2	27.0
Mean daily range,	16.8	17.7	20.4	15.0
Absolute annual range,	71.9	74.2	82.6	66.0
Solar Radiation (mean maxima) ,,	116.6	117.8	127.6	106.0
Terrestrial Radiation (mean		!	ļ	
minima) (°Fahr.)	44.2	43.9	46.8	39.5
Rainfall (in inches)	28.81	25.49	38.04	15.61
Number of wet days	168	138	171	102
Year's amount of free evaporation (in			1	
inches)	39.88	39.17	45.66	31.59
Percentage of humidity (saturation				
=100)	63	68	76	61
Cloudiness (scale 10 = overcast, 0 =				}
clear)	6.0	5.9	6.4	4.8
Number of days of fog	10	20	48	5

AGRICULTURAL RESEARCH AND EDUCATION.

Department of This Department is controlled by a Minister of the Agriculture. Crown, under whom there is a large staff of experts with the Director of Agriculture as permanent head. These officers are actively engaged in supervising all matters relating to the Agricultural, Pastoral, Fruit and Dairying Industries of the State, and in giving instructions to those engaged therein. The Department publishes a monthly journal.

Melbourne University has a well-equipped School of Agriculture, for the maintenance of which a special grant is provided by the State. This School affords opportunity for the training of students in science as applied to practical agriculture and kindred industries. The course occupies four years; the first is devoted to pure science; during the second the students are in residence at the State Research Farm, Werribee, engaged in practical farming with lectures on preparatory subjects. The remaining two years are devoted to a more specialized study of agriculture and allied subjects on a scientific basis.

The Department of Agriculture conducts research and experimental work at the State Research Farm at Werribee, the Rutherglen Experimental Farm, the Longerenong Agricultural College, and at the School of Primary Agriculture, Burnley. In addition, there are experiments and demonstrations conducted on 43 selected farms throughout the State.

At the State Research Farm, Werribee, the main work is the improvement of wheat and other cereals, grasses, clovers and various economic plants, investigations into the methods and problems relating to irrigated agriculture, and the breeding and feeding of dairy cattle, horses, sheep

and poultry.

Work at the Rutherglen Farm, which serves as a research station for the North-East, includes various aspects of cereal growing and pasture improvement. It was here that the initial experiments were conducted (1911–1918) which resulted in the widespread adoption of the topdressing of pastures with phosphates. At the substation at Longerenong experiments are conducted on wheat and oat cultivation for Wimmera conditions. At the School of Primary Agriculture, Burnley, a Plant Research Laboratory mainly devoted to plant pathological and entomological research has been established. Extension research work on the breeding and selection of grasses and clovers is also carried on.

The Government experimental plots on selected farms embrace investigations into pasture improvement, grazing trials, the cultivation of wheat, oats, potatoes, maize, broom millet and vegetables, and

horticultural problems.

The pasture experiments are largely responsible for recent rapid advances made in pasture improvement throughout Victoria, in which approximately 1,000,000 acres are now annually topdressed with an estimated increase of approximately 50 per cent. in carrying capacity.

Experimental Farms and Agricultural Colleges. Various particulars relating to the State Experimental Farms and Agricultural Colleges are embodied in the next statement:—

GOVERNMENT EXPERIMENTAL FARMS AND AGRICULTURAL COLLEGES, 1929.

Particulars.			Central Research Farm, Werribee.	Ruther- glen Farm, &c.	Dookie Agri- cultural College.	Longer- enong Agri- cultural College.	Burnley School of Primary Agricul- ture, &c
			No.	No.	No.	No.	No.
Professional Staff			1	. 2	13	. 8	- 4
Hands employed	::	•	56	23	34	18	9
Students		::	11	10	94	49	80
				•			
Value of plant and machine	PEP		£ 3.152	£ 2.413	£ 8,230	£ 6,599	£ 160
Value of produce for year	1 y	• •	7,340	2,833	10,875	5,226	1,200
Receipts—	••		1,510	_,000		0,0	· 1
Government Grant	••		11,464	5,778	8,210*	6,410*	2,272*
Fees	••		- ::.	0.000	5,325	2,527	118
Sale of produce, &c.	••	••	7,340 133	$\frac{2,833}{32}$	9,482	3,898	1,019
Other	••	• •	133	3Z		<u> </u>	1
Total receipts	••	••	18,937	8,643	23,017	12,835	3,410
•			l i				
Expenditure—						İ	
Salaries—			070			0.000	
Professional Staff General Staff	••	••	372 6,663	779 4,857	5,558	2,909 2,820	1,361
Buildings and maintenan		• •	2,398	1,731	5,349 12,110	7,106	1,340 709
Other	••		1,997	1,033	12,110	1,100	709
Total expenditure			11,430	8,400	23,017	12,835	3,410
Area under—			acres.	acres.	acres.	acres.	acres.
Cereals for Grain			550	210	560	558	acres.
Hay		::	267	120	200	246	2
Fruit trees, &c	•••	::		2	14	20	9
Vines			i	101	.,	. 5	1
Green fodder	••	٠.	130	. 2	90	37	2
Other crops		. • •		12	2	50	- 1
Total area under cro	р.		947	447	866	916	13½
Area of land in fallow			780	178	580	524	41/2
Area under artificially sown		::	350	180			9 3
Area resting		•••	60	218	854	470	
New ground broken up	• •		••	•••		100	
Total area of arable lan			2,137	1,023	2,300	2,010	27
Balance of area	iu.		74	330	3,626	376	6
	••	••					
Total area of farm	••	•:	2,211	1,353	5,926	2,386	33
		٠	No.	No.	No.	No.	No.
Live Stock—			100			40	
Horses Dairy cows	• •	• • •	120 78	47 15	$\begin{array}{c} 77 \\ 72 \end{array}$	46 33	$\frac{2}{4}$
All other cattle	• •	••	78	21	72 39	33 16	2
A1	••	• •	1,400	$\begin{array}{c} 21 \\ 776 \end{array}$	4,130 .	691	, Z
Sneep Pigs	• •		1,400	776	4,130 157	165	• •
	••			G	101	100	i

[•] Including grant received from the Council of Agricultural Education.

The orchards, nurseries, and gardens of the State are systematically inspected by the officers of the Horticultural Division of the Department of Agriculture. Nurseries are inspected periodically, and action is taken in accordance with the condition of the plants in relation to disease or freedom therefrom. Old, worn-out, and infected orchards are destroyed.

The fear of introducing the fruit-flies and diseases arising from other causes has necessitated a thorough examination of fruit from Queensland, New South Wales, and elsewhere.

Plants and cuttings coming from foreign parts are subject to strict examination and to fumigation where it is considered necessary.

Forestry. The State forests are controlled by a Commission of three, which was first appointed in 1919. The State has a wooded area of about 13,937,000 acres, of which about 4,330,450 acres are set aside as permanent State forests and timber reserves.

To encourage the growth of softwoods or conifers in both State and private plantations three large nurseries have been established at Creswick, Macedon, and Broadford. In addition to providing trees for the plantations, the nurseries supply considerable numbers of plants at low rates to State schools, public bodies and private applicants. This has proved of great benefit to the community by fostering an interest in tree planting generally, and especially by encouraging farmers to plant in order to afford protection to their homesteads and to provide shade and shelter for their flocks and herds.

The Forestry Fund was established in 1918 by Act No. 2976, and made applicable only to expenditure on the improvements and reforestation of State forests and the development of forestry. In each year the Treasurer makes a grant of £40,000 out of the Consolidated Revenue to the Fund, and also half of the amount in excess of £80,000 received from royalties, leases, licences, and permits.

The revenue derived from forest sources during the financial year 1929-30 was £128,645, and the expenditure was £220,875—£110,994 of which was paid out of the Consolidated Revenue, £55,264 under the Forests Loan Act No. 3386, and the balance—£54,617—from the Forestry Fund. The balance at the credit of the Fund at 30th June, 1930, was £18,897.

It is estimated that the quantity of timber produced in the rough, from Crown Lands, in 1929-30 was 7,951,594 cubic feet. In addition, 256,600 tons measurement (12,833,000 cubic feet) of fuel timber was produced.

Particulars of sawn timber and firewood, from all sources, will be found on page 426 of this volume.

Agriculture—expenditure—and revenue connected with.

The State has rendered substantial assistance to the various branches of the agricultural and pastoral industries during past years. The appended table summarizes for the last five years the items of State expenditure from consolidated revenue in this direction, and shows the amount of revenue received by the Department of Agriculture:—

EXPENDITURE AND REVENUE CONNECTED WITH AGRICULTURE, 1925-26 to 1929-30.

	1925-26.	1926-27.	1927–28.	1928-29.	1929-30.
77.					
Expenditure.	£	£	£	£.	· £
Administrative Branch	14.093	14,620	13,770	13,142	13,338
Agricultural Branch	21.412	31.270	38,018	36,330	37,400
Horticultural Branch	30,168	32,984	31,763	31,740	29,655
Stock and Dairy Branch	69,210	85,853	89,077	99,232	103.924
Maffra Beet Sugar Factory	85,825	55,891	89,941	73,288	90,553
Technical Agricultural and Viti-	00,020	00,001	00,011	10,200	30,000
cultural Education, &c	31,461	29,418	27,294	27,009	27,134
Development of Export Trade	48,362	60.875	60,946	62,625	56,425
Rabbit and Vermin Extermina-	1 -5,00	00,0.0	00,010	02,020	00,120
tion	88,874	91,929	85,200	81,377	71,277
Advances to Settlers for losses	00,012	02,020	00,200	01,011	
by bush fires, floods, &c	18,587	32,987	21,150	14,004	5,241
Grants to Agricultural and	,	5,	,		0,22
Horticultural Societies, &c	675	675	675	675	500
Miscellaneous	5,369	12,355	488	2,222	498
Total	414,036	448,857	458,322	441,644	435,945
Revenue.					
200000000					
Maffra Beet Sugar Factory	137,997	79.435	58.900	84,183	81,694
Victoria Dock Cool Stores	27,886	32,455	28,205	52,558	34,486
All Other	49,661	52,985	50,432	58,908	54,478
Total	215,544	164,875	137,537	195,649	170,658

In addition to the expenditure shown, various sums have been advanced from loans and votes for the purpose of aiding closer settlement, for the resumption of mallee lands, for relief to farmers on account of bush fires and flood losses, and for purchase of seed wheat and fodder. These advances are gradually being repaid.

The expenditure from Loan Funds in 1929-30 was £1,623,594—£590,756 having been expended on discharged soldiers' land settlement, £846,691 on closer settlement, £20,538 on wire netting, and £165,609 on cultivation advances.

AGRICULTURE.

All divisions of the State are suitable for cultivation. The area cultivated in 1929-30 was 8,061,920 acres, as compared with an annual average of 7,398,980 acres for the previous five seasons, 5,032,359 acres for the seasons 1905-15, and 3,547,111 acres for the seasons 1895-1905. Notwithstanding the great increase in the area cultivated, the dairying and pastoral industries show a considerable expansion. This is evidenced by a comparison of the exports of the principal products to oversea countries in the year 1900 with the annual average in the last five seasons. The values have risen as follows:—Butter and cheese from £1,252,277 to £2,694,923; milk and cream from £5,455 to £1,214,507; and meats from £502,285 to £1,634,767.

The following table shows the progress of cultivation from period to period during the last 75 years:—

ACREAGE CULTIVATED ANNUALLY, 1855 to 1930.

		-	- 1	Crop.	Fallow.	Total Cultivation
				acres.	acres.	acres.
1855–65		• •		325,676	12,146	337,822
1865-75				624,377	57,274	681,651
1875–85				1,306,920	137,536	1.444.456
1885-95				2,109,326	364,282	2,473,608
1895-1905				3,022,914	524.197	3,547,111
1905–15				3,756,211	1.276.148	5,032,359
1915-25				4,594,244	1,852,145	6,446,389
1926				4,433,492	2,457,136	6,890,628
1927		• •		4,735,173	2,569,021	7,304,194
1928	•••	•••		4,942,258	2,692,044	7,634,302
1929		• • •		5,505,651	2,683,462	8,189,113
1930	••	••	••	5,579,258	2,482,662	8.061.920

The principal crops grown in the State are wheat, oats, barley, potatoes, and hay. The following tables contain particulars of the annual average area, production, and yield per acre for periods from 1855 to 1925 and for each of the last five seasons:—

ACREAGE, PRODUCTION, AND AVERAGE YIELD OF FIVE PRINCIPAL CROPS, 1855 to 1930.

Period or Year (ended March).	Wheat.*	Oats.*	Barley.	Potatoes.	Hay.
<u></u>				- 	<u> </u>
		AVERA	GE ANNUAL	AREA.	
124	1		ſ	. 1	
	acres.	acres.	acres.	acres.	acres.
1855-65	119,001	83,296	4,843	24,123	80,117
1865–75	278,077	129,384	19,262	36,744	117,393
1875–85	776.031	147,343	41,188	39,089	226,775
1885–95	1,236,501	210,901	64,310	48,009	437,087
895-1905	1,898,280	340,957	52,829	45,243	540,472
1905-15	2,190,336	390,642	60,378	56,272	848,587
915-25	2,633,945	428,372	84,205	61,195	1.122,978
926	2,513,494	437,696	103,395	63,369	1,013,613
927	2,915,315	303,424	-88,896	66,185	1,080,993
000	3.064.172	529,392	76,768	77,649	908,804
000	3,718,904	347.021	75,451	68,412	1.005,063
1930	3,566,135	630,234	97,678	58,789	865,015
1990	5,000,155	0,0,0,204	91,018	50,103	000,010
		1		1	
		AVERAGE A	Annual Proi	UCTION.	-
***** · · · · · · · · · · · · · · · · ·	bushels.	busheis.	bushels.	tons.	tons.
10== 4=			. 1		
1855–65	2,198,874	2,068,648	103,575	62,723	111,806
1865–75	4,385,814	2,636,747	390,337	111,800	153,852
1875–85	8,593,308	3,297,468	799,938	135,614	276,771
1885-95	12,268,905	4,649,393	1,187,007	170,905	547,092
1895–1905	14,032,145	6,649,453	947,580	134,357	672,982
1905–15	22,906,743	7,342,468	1,243,442	158,445	1,084,726
1915–25	39,171,358	7,965,864	1,923,654	169,864	1,511,298
1926	29,255,534	4,998,165	1,774,963	160,729	929,068
1927	46,886,020	4,884,006	1,920,722	162,909	1,387,971
1928	26,160,814	4,682,724	1,552,109	230,348	1,001,251
1929	46,818,833	5,602,409	1,556,118	140,158	1,267,437
1930	25,412,587	5,058,541 -	- 2,183,325	171,747	963,089
	I	A ###D 4 07 A 4	 NNUAL YIRLD	nem Agen	
	· · · · · ·	AVENAGE AL	I LINED	I Mic Tiones.	
	bushels.	bushels.	bushels.	tons.	tons.
1855–65	18-48	24.83	21-39	2.60	1.40
1865–75	15.77	20.38	20.27	3.04	1.31
1875–85	11.07	22.38	19.42	3.47	1.22
1885–95	9.92	22.05	18.46	3.56	$\hat{1} \cdot \overline{21}$
1895–1905	7.39	19.50	17.94	2.97	$1\cdot \tilde{2}\tilde{5}$
100F 15	10.46	18.79	20.59	2.82	1.28
1905–15	14.87	18.60	20 39	2.78	1.35
1926	11.64	11.42	17.17	2.54	0.92
			21.61	2.46	1.29
1927	16.08	16.10			
1928	8.54	8.85	20.22	2.97	1.10
1929	12.59	16.14	20.62	2.05	1.26
1930	7.13	8.03	22.35	2.92	1.11

^{*} For grain

Principal crops
The percentage in each district of the total area under each principal crop during last season was as given below:—

PERCENTAGE IN EACH DISTRICT OF TOTAL AREA UNDER EACH PRINCIPAL CROP, 1929-30.

			Percentage in each District of Area under-							
Distr	Wheat.	Oats.	Barley.	Potatoes.	Hay.	Other Crops.				
Central			1 48	3 65	38.06	52.43	27.12	6.95		
North-Central			0.80	2.18	2.86	18.62	2.50	2.09		
Western			2.48	6.20	15.11	12 55	$7 \cdot 43$	5.44		
Wimmera			23.66	15.71	10.69	0.13	5.48	20.33		
Mallee			51.26	$52 \cdot 45$	10.02	0.00	13.57	42.01		
Northern			18 45	17.48	11.69	0.06	19.76	17:99		
North-Eastern	• •		1 · 16	1.75	1.55	1.22	5.95	2.08		
Gippsland			0.71	0.58	10.02	14.99	18.19	3.11		

NOTE.—For counties contained in each District, see table on page 374.

The area under the principal crops in proportion to the total area under crop in each district during last season was as follows:—

RELATIVE AREAS DEVOTED TO DIFFERENT CROPS IN EACH DISTRICT, 1929-30.

			Percentage of Area under all Crops devoted to-							
Distric	Districts.			Oats.	Barley.	Potatoes	Hay.	Other Crops.		
				-						
Central			13 62	5.93	9 59	7 95	37.62	25 29		
North-Central	٠	.:	24.45	11.78	2.39	9.39	$44 \cdot 24$	7.75		
Western			29.10	12.86	4 86	2.43	41 90	8 85		
Wimmera			$74 \cdot 37$	8.73	0.92	0.01	14 23	1.74		
Mallee			78.00	14 10	0.42	0.00	5.39	2.09		
Northern		• •	65 58	10.98	1.14	0.00	15.18	7 12		
North-Eastern	•	• • •	35.53	9.54	1.31	0.62	34.42	18:58		
Gippsland			14:56	2:09	5 64	-5.07	34 · 81	37 83		
Total for Victor	oria	••	63 92	11.30	1.75	1 05	15.50	6.48		

NOTE.—For counties contained in each District, see table on page 374

Principal crops

The area and produce of the principal crops per head
compared with of population are given in the next table for each of the
population. last five years:—

AREA AND PRODUCTION OF FIVE PRINCIPAL CROPS PER HEAD OF POPULATION, 1925-26 to 1929-30.

			Wheat.	Oats.	Barley.	Potatoes.	Hay.
Year	ended Ma	irch—		Area per	Head of Pop	ulation.	
		Ţ.	acres.	acres.	acres.	acres.	acres
926	• •	•••	1 ·49	26	•06	04	•60
.927		••	1 · 70	18	•05	04	· 6 3
928		[1.76	.30	·04	•04	• 52
929			2.11	· 20	•04	•04	•57
930	••,	••	2.01	•35	.05	.03	.49
	-			Produce I	er Head of P	opulation.	
	-	.	bushels.	bushels.	bushels.	tons.	tons.
926		••	17.37	2 - 97	1.05	10	55
927	• •		$27 \cdot 39$	2.85	1.12	10	.81
928		••.	15.02	2.69	.89	·13	^57
929			26.59	3 · 18	•88	•08	$\cdot 72$
930			$14 \cdot 30$	2.85	$1 \cdot 23$	·10	• 54

Except in the three seasons 1895-96, 1902-03, and 1914-15, the wheat produced during each year since 1870 has been more than sufficient to supply home consumption.

The following table gives the annual value of each of the five principal crops, based upon prices realized upon farms, also the value of each crop per acre for each of the last five years:—

VALUES OF FIVE PRINCIPAL CROPS.

Year ended March—		Annual Value of—							
•	Wheat.	Oats.	Barley.	Potatoes.	Hay.				
2.5	£	£	£	£	£				
1926	6,665,150	684,320	290,166	1,309,470	3,497,253				
1927	9,546,812	653,291	295,739	671,673	4,719,92				
1928	4,724,369	688,804	297,327	388,537	3,683,272				
1929	8,364,675	627,521	222,504	1,189,349	3,502,862				
1930	3,559,063	554,547	300,202	691,273	2,998,282				

VALUES OF FIVE PRINCIPAL CROPS—continued.

			Annual Value Per Acre of—										
Year	ear ended March—		Wheat.	Oats.	Barley.	. Potatoes.	Hay.						
			£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.						
1926			2 13 0	1 11 3	2 16 1	20 13 3	3 9 0						
1927			3 5 6	$2 \ 3 \ 1$	3.66	10 3 0	4 7 4						
1928	•		1 10 10	1 6 0	3 17 6	5 0 1	4 1 1						
1929			$2 \ 5 \ 0$	1 16 2	2 19 0	17 7 8	3 9 8						
1930			1 0 0 0	0.17 7	3 1 6	11 15 2	3 9 4						

The value of the five principal crops was £8,103,367 in 1929-30, as against £13,906,911 in 1928-29, £9,782,309 in 1927-28, £15,887,440 in 1926-27, and £12,446,359 in 1925-26.

The principal wheat growing areas are the Wimmera, Mallee, and Northern districts. Although other districts provide only small proportions of the total area they are not to be regarded as unsuitable for wheat growing, as their average yield per acre is usually greater than in the areas mentioned. The production of wheat for grain in different counties for each of the last three seasons is shown in the following table:—

WHEAT YIELDS IN COUNTIES FOR THE LAST THREE SEASONS.

				Year end	ed March.				-	
Districts and Counties.		Area.			Produce.			Average per Acre.		
	1928.	1929.	1930.	1928.	1929.	1930.	1928.	1929	1930.	
Central—	acres.	acres.	acres.	bushels.	bushels.	bushels.	bush.	bush.	bush.	
Bourke Grant Mornington Evelyn	15,440 21,931 3,939 268	17,569 28,473 9,796 484	19,142 27,879 5,696 277	270,998 372,044 97,177 5,998	187,705 334,394 241,735 5,906	465,098 661,521 132,083 5,880	16.96	$11.74 \\ 24.68$	$23.90 \\ 23.19$	
Total	41,578	56,322	52,794	746,217	769,740	1,264,582	17.95	13 · 67	23 · 95	
North-Central— Anglesey Dalhousie Talbot	1,006 2,376 17,414	1,233 2,778 24,497	2,626	23,420 49,020 320,930	44,360	21,185 51,658 424,746	20.63	15-97	19.67	
Total	20,796	28,508	28,526	393,370	597,746	497,589	18.91	20 . 97	17.44	
Western— Grenville Polwarth Heytesbury Hampden Ripon Villiers Normanby Dundas Follett	11,741 182 37 13,945 34,601 2,279 1,432 2,348 379	14,393 192 129 15,208 35,315 2,286 1,689 3,227 456	17,330 427 47 18,062 43,712 2,502 1,769 4,322 205	265,754 3,919 769 317,640 798,140 53,072 32,178 51,060 6,706	3,855 2,882 304,866 858,593 47,695 34,227	12,792 1,089 492,035 1,364,893 63,647 38,393 88,917	21 · 53 20 · 78 22 · 78 23 · 07 23 · 29 22 · 47	20 · 08 22 · 34 20 · 05 24 · 31 20 · 86 20 · 26 19 · 28	29 · 96 23 · 17 27 · 24 31 · 22 25 · 44 21 · 70 20 · 57	
Total	66,944	72,895	88,376	1,529,238	1,544,220	2,502,973	22.34	21.18	28.32	

WHEAT YIELDS IN COUNTIES FOR THE LAST THREE SEASONS—continued.

				Year ead	ed March.				
Districts and Counties.		Area.			Avera	ıg e p er	Acre		
	1928.	1929.	1930.	1928.	1929.	1930.	1928.	1929.	1930
Wimmera—	acres.	acres.	acres.	bushels.	bushels.	bushels.	bush.	bush.	bush
Lowan	194,984	244,527	225,450	3,058,292	4,987,673	4,117,933	15.69	20.40	18.97
Borung	430,174								
Кага Кага	146,267		159,996				14.34	17.32	5.95
Total	771,425	950,452	843,773	10,092,326	17,663,768	8,382,370	13.08	18-58	9.93
Mallee—									
Millewa	116,028	182,497	222,320	16,991	626,812	5,460	0.15	3.43	0.02
Weeah	196,772	229,109	240,707	829,774	1.893,443	598,709			
Karkarooc	708,307	848,101	870,597						
Tatchera	439,549	532,496	494,448	1,224,703	4,706,895	1,136,326	2.79	8.84	2.30
Total	1,460,656	1,792,203	1,828,072	4,897,753	13,835,216	3,704,100	3.32	7.72	2.03
Northern—									
Gunbower	56,904	50,859	38,569	204,945	500,229	278,260	3.60	9.84	7.21
Gladstone	121,205	151,151	128,972	1,327,972	2,303,107	722,520	10.96	15 .24	5-60
Bendigo Rodnev	133,796	160,727		1,133,701	2,516,889		8.47	15.66	8.47
36-1	81,599 244,329	98,644 282,211	89,706 257,234	858,107 3,524,600	1,643,880	1,170,328	10.52	16.66	13.05
Moira		202,211	201,204		4,166,493		14.43	14.76	10.10
Total	637,833	743,592	658,160	7,049,325	11,130,598	7,544,080	11 05	14 · 97	11.46
North-Eastern—									
Delatite	8,623	9,091	7,987	170,842	137,554		19.81		
Bogong	35,488	37,698			630,317	732,952	20.56		
Benambra Wonnangatta	261	281	300	5,864	4,469	7,606	22 - 47		25 - 35
Wonnangatta		. 11		•••	240			21 · 82	••
Total	44,372	47,081	41,133	906,428	772,580	931,656	20 · 43	16.41	22 · 6 5
Jippsland—									
Croajingolong	9	5	22	134	70	323	14.39	14.00	14 - 68
Tambo	146	493	312	3,435	8,533	9,464	23.53	17.31	30.33
Dargo	1,141	1,562	1,324	27,281	30,391	39,068	23 91	19 . 46	29-51
Tanjil Buln Buln	16,845 2,427	21,109 4,682	21,191	456,906	380,310		27.12	18 .02	23.03
Dum Dum	2,421	4,082	2,452	58,401	85,661	48,364	24.00	18.30	19.72
Total	20,568	27,851	25,301	546,157	£04,965	585,237	26 · 55	18 · 13	23 · 13
Total (State)	3,064,172	3,718,904	3,566,135	26,160,814	46,818,833	25,412,587	8 54	12 · 59	7.13

The production of wheat in the other Australian States in 1929–30 was as follows:—New South Wales, 33,948,000 bushels; South Australia, 23,345,093 bushels; Western Australia, 39,081,183 bushels; Queensland, 4,235,172 bushels; and Tasmania, 376,000 bushels. The total production for the Commonwealth was 126,425,773 bushels.

Varieties of Wheat, etc., and Manure used.

Australian wheat is noted for its hard, white, and dry qualities, and, on account of the whiteness of the flour made therefrom, it is much sought after by oversea millers for the purpose of mixing with other wheats.

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Enquiries in regard to the area sown under each variety of wheat, the quantity of seed sown, and the manure used, per acre, during the last four seasons, were made with the view of enabling the Agricultural Department to advise growers as to the most suitable varieties and the quantities to use in a particular district.

Analyses of the replies of the growers (approximately 70 per cent. replied) are given in the appended tables:—

VARIETIES OF WHEAT SOWN IN VICTORIA.

	1927-28.		1928-29.		1929-30.		1930-31.	
Variety.	Relative Order of Importance.	Percentage (according to acreage) of total area in the State.	Relative Order of Importance.	Percentage (according to acreage) of total area in the State.	Relative Order of Importance.	Percentage (according to acreage) of total area in the State.	Relative Order of Importance.	Percentage (according to acreage) of total area in the State.
Free Gallipoli Federation Ranee Sepoy Major Currawa Penny Nizam Joffre Nabawa Rajah Yandilla King Bald Early Wannon Gluyas Huf's Imperial Mac's White Ghurka Turvey Waratah Strongbolt Bena Tusean White Graham Yanward Other Varieties	5 1 3 21 4 2 6 16 10 29 7 9 8 11 11 12 22 23 23 24 33 36 18 19 19 29 19 29 19 20 20 20 20 20 20 20 20 20 20 20 20 20	5:47 38:42 5:95 31 5:62 9:51 4:44 1:41 2:66 2:77 3:14 2:01 2:47 1:96 2:15 16 2:09 2:55 109 44 4:32	2 1 3 17 6 4 5 7 10 19 8 13 9 11 12 14 15 31 16 18 225 229 221	10.56 33.41 10.10 .88 4.52 7.76 4.58 3.28 2.69 .47 2.95 2.00 2.80 2.19 2.05 1.85 1.42 .13 1.30 .47 .15 .18 .130 .37 .18 .33 .346	1 2 3 8 5 4 6 7 9 16 10 11 12 13 14 17 15 12 18 20 19 22 23 24	22 · 20 19 · 80 12 · 74 2 · 95 5 · 38 7 · 02 3 · 69 2 · 48 1 · 34 2 · 44 1 · 75 1 · 63 1 · 61 1 · 13 1 · 57 · 29 · 48 · 49 · 49 · 22 · 23 · 29 · 2	1 2 3 4 5 6 7 8 9 10 112 13 14 15 16 17 18 19 20 21 22 23 24 25	34 53 13 93 13 13 5 66 4 56 4 56 4 56 3 68 3 27 1 95 1 37 1 13 9 99 92 78 60 50 53 46 39 1 95 1 13 1 13
		100.00		100.00		100.00		100.00

In all, over 130 varieties of wheat were sown. The number of these which were tried in the Mallee greatly exceeded the number experimented with in any other district. A more extended list showing the area and percentage of each variety, and the ten principal varieties grown in each district, can be obtained on application to the Government Statist.

ESTIMATED PERCENTAGE OF TOTAL AREA UNDER WHEAT, AND SEED AND MANURE USED, 1930-31.

				Percentage	Weight per acre of-		
	District.			(according to acreage) of total area in the State.	Seed Sown.	Manure Used.	
O		·		per cent.	lbs.	lbs.	
Central		• •	• •	1.21	90	106	
North Central	• •	• •		0.87	90	93	
$\mathbf{W}_{\mathbf{estern}}$				2.53	87	135	
Wimmera				24.62	69	81	
Mallee				$50 \cdot 34$	53	56	
Northern				18.47	69	82	
North Eastern				1.04	75	93	
Gippsland	• •	• •		0.62	84	96	
Total State	••,			100.00	62	71	

The rate of sowing, in the principal wheat growing counties, ranged from 41 lbs. of seed per acre in the County of Millewa to 90 lbs. in Talbot. Manure used varied from 39 lbs. per acre in Millewa to 144 lbs. in Ripon.

The weight of an imperial bushel of wheat is 60 lbs., but the actual weight of a bushel of Victorian wheat of the fair average quality standard annually fixed by the Chamber of Commerce was 61 425 lbs. on the average of the last ten years. The following statement shows the variation in the f.a.q. standard weight of a bushel of Victorian wheat for each season since 1919-20:—

F.A.Q. WHEAT STANDARD, 1921 to 1930.

Season ended March—		Weight of Bushel (f.a.q.).	Season ended March—			Weight of Bushel (f.a.q.).		
1921 1922 1923 1924 1925	:: :: ::		lks. 60½ 60 61¼ 61 62½	1926 1927 1928 1929 1930			lbs. 61½ 61¾ 61¾ 62 62	

Stocks of wheat and flour.

It is estimated that about 13,750,000 bushels of wheat are required locally for food and seed. The stocks of wheat and flour in the State at 31st October in each of the last five years were as follows:—

WHEAT AND FLOUR ON HAND, 1926 to 1930.

			-	Quantity in Bushels.					
At 31st October—				Wheat.	Flour (equivalent in Wheat).	Total.			
						0.101.054			
1926				1,629,124	472,750	2,101,874			
1927				3,595,800	1,406,600	5,002,400			
1928				2,995,000	995,400	3,990,400			
1929				4,362,300	1,090,100	5,452,400			
	• •	• •	••	6,126,500	1,305,400	7.431.900			
1930		• •		0,120,000	1,500,400	., 202,000			

last season as shown in the table on page 371, there were 675,256 acres cut for hay, so that the total area sown with oats was 1,305,490 acres. During 1929-30 there were exported from Victoria to oversea countries 69,922 bushels of oats and 61,652 lbs. of oatmeal, etc. Enquiries in regard to the different kinds of oats sown for the 1930-31 season showed that, of those growers who supplied the information, 91 per cent. planted principally Algerian, and 5 per cent. Mortgage Lifter oats.

The area under barley in 1929-30 was 97,678 acres, of which 65,740 were under malting, and 31,938 under other barley. The figures in the subjoined table show the acreage, production, and yield per acre, for each of the last five years:—

BARLEY PRODUCTION, 1925-26 to 1929-30.

Year ended	Area under Crop.		Produce.		Average per Acre.		
March—	Malting.	Other.	Malting.	Other.	Malting.	Other.	Total.
1926 1927 1928 1929 1930	acres. 72,244 59,935 50,005 49,345 65,740	acres. 31,151 28,961 26,763 26,106 31,938	bushels. 1,189,081 1,186,733 866,213 945,865 1,378,022	bushels. 585,882 733,989 685,896 610,253 805,303	bushels. 16:46 19:80 17:32 19:17 20:96	bushels. 18·81 25·34 25·63 23·38 25·21	bushels 17·17 21·61 20·22 20·62 22·35

During 1929-30, 1,909,923 bushels of barley were used locally in the production of 1,867,907 bushels of malt.

Of the total hay produced in 1930, as shown in the table on page 371, 802,933 tons were oaten, 119,124 tons were wheaten, and 41,032 tons were made from lucerne and other crops; the yields per acre of these varieties of hay were 1·19, 0·72, and 1·70 tons respectively. The quantity of straw returned for the season 1929-30 was 29,839 tons.

Information is obtained direct from growers, in February or March of each year, in regard to the prices of the leading agricultural products other than the main crop of potatoes, the price of which is ascertained in June or July. The following table gives the average price of each product for each of the last ten years:—

PRICES OF PRODUCE, 1921 to 1930.

					A	verag	e Pric	e in E	ebrus	ry and	Mar	ch.			
,	Year.						Ва	rley.					Pot	atoes.	
		W1	ieat.	0	ats.	Mai	ting.	Ot	her.	Ha	у.	Ear		Main (afte Mar	
1921	• •		d.	bu s. 2	***	bus 8.	oer shel. d .	bus s.	d.	pe to: \$.		pe to: s.		to s	d.
1922	••	4	$9\frac{1}{2}$	3	-	4	01	2	11	57	0	94	0	60	0
1923	•••	4	6	3	6	3	11	3	0	76	0	170	0	136	0
1924	••	4	3	3	11	3	91	3	$2\frac{1}{4}$	72	0	111	0	5 3	0
1925	••	5	03	1	111	5	33	4	01	48	9	121	0	94	0
1926	• • •	4	63	2	9	3	43	3	0	75	3	194	0	158	0
1927	••	3	94	2	$5\frac{1}{4}$	3	0	2	$6\frac{3}{4}$	64	9	170	0	6 9	0
1928		3	11/2	2	53	. 4	01	3	11	70	.0	84	0	28	0
1929	••	. 3	3	. 2	0	3	0	2	11.	52	0	158	0	169	0
1930		· 2	31	1	93	2	91	2	3	59	0	143	0	71	0

1927 to 1930 ,, ,, ,, seed and manure.

Other Crops. The area under other than principal crops and the production since March, 1927, are shown in the subjoined table:—

OTHER THAN PRINCIPAL CROPS, 1927-28 to 1929-30.

Crop.	1927	-28.	192	8–29.	1929)-30.
огор.	Area.	Production.	Area.	Production.	Area.	Production.
]	acres.	bushels.	acres.	bushels.	acres.	bushels.
Maize, for grain	17,645	757,780	16,077	679,810	17,640	533,719
Rye	791	11,122	711	10,994	854	11,068
Peas	10,615	139,621	6,743	108,607	8,438	193,640
	~~~	tons.		tons.		tons.
Mangel-wurzel	568	9,451	429	5,301	486	5,539
Beet, Carrots, Par-					_	
snips and $Turnips$	207	1,629	243	2,079	243	1,798
Onions	7,659	32,936	7,673	29,700	7,828	43,646
Green Forage	94,895		107,351		169,253	
Grass and Clover				, .,.,		
Od-	758	bushels.	1,486	bushels. 20.844	1,670	bushels.
Seeas	198	4,852 cwt.	1,400	20,844 cwt.	1,070	25,696
Hops	294	3,843	281	3,676	201	3,713
Tobacco	$1,\overline{176}$	9.055	1,317	9,375		+ 5,110
Vines—Grapes	40,988	2,275,770	41,565	4,117,757	40,594	4,040,230
vines—Grapes	±0,000	2,210,110	1 1,000		10,001	
		ewt.		ewt.	1 1	cwt.
Flax	46	100 fibre	109	826 seed	$\begin{bmatrix} 1 & 703 \end{bmatrix}$	2,840  seed
1102	20)	83 tow	1 100	236 fibre	1	760 fibre
		33 33		239 tow	1	980 tow
Gardens and Or-	(	•	′ ′	1	,	
chards	81,397		79,322		80,820	
Minor Crops*	9,450		8,863		9,645	
	2,692,044		2.683,462		2,482,662	
Lucernet .	118,461	::	127,175		138,781	··· .
Artificial Grasses	887,052		1,027,543		1,002,376	::

[•] For details see page 385.

The area under maize for grain in 1929-30 was 17,640 acres, and the production was 533,719 bushels, which represented a yield of 30 26 bushels per acre. Of the total production for last season 90 per cent. was obtained from the Gippsland district. The area, total production, and produce per acre are given in the next table for each of the last ten seasons and for periods prior thereto back to 1890:—

[†] Not available.

[‡] Not cut for seed or hay.

#### MAIZE PRODUCTION, 1890 to 1930.

				A	onual Average.	
Period or	Year (en	iding in Jun	.e)•	Area under Maize for Grain.	Production.	Produce per
1890-1900			· ·	acres. 8,688	bushels. 452,907	bushels. 52·13
1900-10			• • •	12,082	716,158	59.27
1910-20				20,811	922,461	44.33
1921				24.149	1,065,880	44.14
1922				23,227	951,960	40.99
1923	••	• •	•	25,846	879,915	34 04
1924				29,104	1,464,731	50.33
1925				23,126	891,987	38 • 57
1926	5. e			21,913	768,761	35.08
1927	• • •			20,046	685,407	34 · 19
1928	٠.			17,645	757,780	42.95
1929				16,077	679,810	42.28
1930				17,640	533,719	$30 \cdot 26$

On the average of the last five seasons the yield per acre was 36.71 bushels, as against 45.0 in 1910-15, and 65.4 in 1900-05. The relatively light yield per acre for the latest five-year period was probably due to the cultivation of new areas, which are less fertile than the rich river flats upon which this cereal was grown exclusively in earlier periods.

Onions are grown in nearly every county south of the Dividing Range. The returns for last season show that in Villiers, the yield was 9,561 tons from 1,520 acres; in Grenville, 8,573 tons from 1,769 acres; in Polwarth, 6,302 tons from 1,070 acres; in Bourke, 6,470 tons from 1,027 acres; in Grant, 5,616 tons from 1,023 acres; in Buln Buln, 4,150 tons from 786 acres; and in Mornington, 2,417 tons from 512 acres. The following statement shows the area and yield for each of the last five years:—

#### ONION PRODUCTION 1925-26 to 1929-30.

	Year ended	March—		Area.	Produce.	
1926	 		 	acres. 5,379	tons. 21,728	
1927	 		 	8,471	43,928	
1928	 		 	7.659	32,936	
1929	 	• •	 	7.673	29,700	
1930	 		 	7,828	43,646	

The value of onions grown was £74,704 in 1929-30, as compared with £187,233 in 1928-29, £188,186 in 1927-28, £110,839 in 1926-27, and £267,793 in 1925-26.

Tobacco production reached its maximum in 1880-81, when 17,333 cwt. of dry leaf was produced. Subsequent years were marked by great variations in area and produce, but during the last two years a considerable improvement in the acreage

planted has taken place—that for 1929-30 being the largest since 1895-6. The area devoted to this product last year was 1,822 acres, of which 957 were in Delatite, 628 in Bogong, and 129 in Borung. Particulars relating to the cultivation of tobacco for each of the last five years are as follows:—

TOBACCO PRODUCTION, 1925-26 to 1929-30.

	Yea	r ended Ju	nne	.	Area.	Produce.
			<del> </del>		<del></del>	-
					acres.	cwt. (dry).
1926	••				1,179	7,871
1927					1.154	3,454
1928	• •				1,176	9,055
1929					1,317	9,375
1930	• •				1,822	*

^{*} Not available.

Vine The area under vines and the number of growers have shown a fairly large increase over the last fifteen years.

Vineyards are distributed fairly well over the State, and there are certain districts where the principal industries are connected with vinegrowing. The Shire of Mildura produced last season 3,325,910 cwt. of grapes; Swan Hill, 539,084 cwt.; Rutherglen, 87,820 cwt.: and Rodney, 17,626 cwt. At Mildura the crop is principally dried for raisins and currants. The results of five years' operations are given below:—

VINE PRODUCTION, 1926 to 1930.

÷		Ar	ea.		. 1	Produce.		
Year ended June—	Number of Growers.		Not	Grapes	Wine	Raisin	s made.	Currants
		Bearing.	Bearing.	gathered.	made.	Lexias.	Sultanas.	made.
1926 1927 1928 1929 1930	2,876 2,832 2,774 2,746 2,701	acres. 36,091 37,340 37,974 38,689 38,327	acres. 4,621 3,272 3,014 2,876 2,267	cwt. 2,253,884 3,587,224 2,275,770 4,117,757 4,040,230	gallons. 1,637,274 2,346,314 2,353,890 1,942,701 1,363,575	cwt. 54,021 75,296 75,672 94,520 95,255	cwt. 297,485 582,418 326,649 676,599 688,399	cwt. 123,733 135,464 73,101 189,985 178,226

Of the total quantity of grapes gathered in 1930, it is estimated that 191,125 cwt. were used for making wine and spirits, 3,772,206 cwt. for raisins and currants, and 76,899 cwt. for table consumption and export. Of the 688,399 cwt. of sultanas made, 576,288 cwt. were from Mildura, and 110,014 cwt. from Swan Hill.

Raisins and currents are produced in Victoria upon a scale far in excess of the State's requirements. During 1929-30 the following quantities were exported oversea:—Sultanas, 491,626 cwt., valued

at £1,059,062; lexias, 37,973 cwt., valued at £68,019; raisins, other, 678 cwt., valued at £1,463; and currants, 136,116 cwt., valued at £288,768.

Orchards growing fruit for sale in 1929-30

—79,000 acres—showed an increase of 1,378 acres as compared with the area for the previous year. Orchards are distributed over the whole State, and the counties having the largest areas in the season 1929-30 were as follows:—Mornington, 15,110 acres; Bourke, 11,576 acres; Evelyn, 10,883 acres; Rodney, 10,005 acres; Moira, 8,311 acres; Talbot, 3,975 acres; and Bendigo, 3,055 acres. Details of the produce from such orchards in the last five years are given in the subjoined statement:—

### ORCHARDS GROWING FRUIT FOR SALE, 1925-26 to 1929-30

					1920 -	20	TO 13	<i>1</i> 2	49-30.			
Year	Number	Area					LA	R	E FRUIT	S GATHERE	D.	
ended March—	of Fruit- growers.	Gard an Orchs	d	A	p <u>p</u> les.		Pears.		Quinces.	Plums.	Prunes.	Cherries.
1926 1927 1928 1929 1930	7,673 7,425 7,209 7,119 7,241	acre 80,2 81,3 79,2 77,6 79,0	251 301 293 322	2,0 3,7	26,294	1,	oushels. 840,113 500,995 053,481 772,216 166,418		bushels. 81,365 42,695 115,606 76,868 84.894	172,724 231,728	bushels. 50,408 37,060 79,481 76,237 86,298	bushels. 69,639 29,817 47,795 51,765 46,060
		<del></del>						<u> </u>	-continue	<u> </u>	, 50,200	120,000
	Peaches.	Apric	ots.	01 —	anges.	L	emons.	_	Figs.	Vectarines	Passion.	Other.
1926 1927 1928 1929 1930	bushels. 1,221,582 925,353 1,350,701 1,043,840 1,191,253	440,4 1 416,2 1 468,5	500 123 277 536	28 27 37 35	1shels. 6,216 6,407 8,101 4,817 5,106	13 11 16 13	iushels. 31,154 2,570 52,860 37,684 4,081	1 1 1	oushels. 2,568 6,474 8,125 8,776 7,898	bushels. 15,289 9,274 23,142 12,451 19,210	bushels. 10,495 22,289 22,072 38,105 13,063	bushels, 860 6,311 3,608 1,656 6,313
	1	BERRY F	RUIT	s G	ATHERE	D.				NUTS GATI	HERED.	<del></del> -
		Straw- berries.	Good		Logan berries		Other.		Almonds	. Walnuts.	Filberts.	Chest- nuts.
5 °	cwt.	cwt.	cw	t.	ewt.		ewt.		lbs.	lbs.	lbs.	lbs.
1926 1927 1928 1929 1930		4,022 1,877 4,958 6,522 12,047	1,3 4,4 3,0		3,653 1,364 4,859 3,403 5,395	:	2,557 346 1,760 1,269 1,783		71,480 68,313 66,783 115,835 63,333	31,254 30,236 47,094	201 59 148 205 654	16,793 15,495 26,066 22,965 18,476

The effects of the dry season and the ravages of the "thrip" pest, during 1926-27, are shown in the above table, except in the yields of apricots and passion fruit. In 1927-28, the yield for all fruits was exceptionally heavy; that for pome and citrus fruits constituting a record. In most cases, the yield for 1928-29 was very low, the apple crop, in particular, being little more than that for the 1926-27 season. In the season 1929-30 there was a return to normal, the yield of practically all fruits being well up to the average.

In addition to the fruits shown, large quantities of melons, rhubarb, and tomatoes were produced in the orchards, the following being the quantities returned for 1929-30:—Melons, 8,741 cwt.; rhubarb, 12,975 dozen bundles; and tomatoes, 221,092 bushels. There were also 1,820 acres laid down in gardens growing fruit for private use; the value of the produce from these was estimated at about £9,100.

Fruit Trees. Information relating to the number of trees of each variety (bearing and non-bearing) for the years 1925-26 and 1928-29 appears on page 565 of the *Victorian Year-Book* for 1928-29.

According to prices received by growers the value value of fruit which reaches market was estimated to be £1,247,700 in 1925-26, £970,831 in 1926-27, £1,189,356 in 1927-28, £1,093,434 in 1928-29, and £927,723 in 1929-30. This, of course, does not represent the actual value of all the fruit grown, as large quantities are privately consumed in various ways. No very reliable estimate of the value of such fruit can be prepared, but it may be set down at about £40,000.

The area under market gardens in the year 1929-30 was 21,210 acres. As these gardens are generally situated near large centres of population, the producers are able to dispose of the bulk of their goods with a minimum loss from waste, &c. An average return of £50 per acre is regarded as a fair estimate of their value, and on this basis the total value of the produce may be given as £1,060,500. This does not include crops of one acre and over of potatoes, onions, mangel-wurzel, beet, carrots, parsnips, and turnips grown in market gardens, such crops being tabulated under their respective heads in the returns relating to agriculture.

The quantity of dried fruit (weight after drying) was (exclusive of Raisins and Currants).

The quantity of dried fruit (weight after drying) was first collected in 1895-96, when 179,460 lbs. were returned. During 1929-30 the quantity produced was 1,519,762 lbs., which was 48,366 lbs. less than the quantity for the previous year. The production of the various kinds of dried fruit, with the exception of raisins and currants, the particulars of which appear on page 382, is shown in the following statement for each of the last five seasons:—

#### DRIED FRUIT, 1925-26 to 1929-30.

Year ended Juno—	Apples.	Prunes.	Peaches.	Apricots.	Figs.	Pears.	Nectarines.	Total.
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1926				213,764	29,301	89,025	8,163	884,36
1927	2,840	313,390	107,933	278,796	9,966	43,333	66	756.32
1928	3,351	610,073	305,984	188,085	10,245	85,396	4.424	1,207,55
1929	2,194	760,216	136,033	586,140	7,635	71,591		1,563,12
1930	3.424	848.811	234.032	343,490	6,878	82.267		1,519.76

Features of the returns for the season 1929-30, as compared with those for the previous year, are the increases in prunes and peaches and the large decrease in apricots.

The following is a return of the minor crops for the whole of the respective crops grown, but refer only to such as were taken cognisance of by the collectors. The return, therefore, indicates the nature of the crops rather than the full extent of their cultivation:—

#### MINOR CROPS, 1928-29 AND 1929-30.

		1928-29.		<b>192</b> 9-30.
Crop.	Area.	Produce.	Area.	Produce.
Artichokes Beans Chicory Flowers Garlie	1,295	12 tons 17,353 bushels 353 tons (dry)  43 tons	acres. 3 1,815 469 355 2	15 tons 17,859 bushels 319 tons (dry)  4 tons
Flax—New Zealand	70	*	70	*
Herbs and Scent Plants.	3	••	33	
Millet—Broom	0=0	$\begin{cases} 4,465 \text{ cwt. fibre} \\ 3,729 \text{ cwt. seed} \\ 1,840 \end{cases}$		5,428 cwt. fibre (3,583 cwt. seed
Nurseries	1,216 1,204	5,416 tons	$1,266 \\ 1,231$	5,174 tons
Garden	119	[15,237 tons		(26,525 tons
Sugar Beet	2,130	clean beet, producing 2,108 tons market-		clean beet, producing 3,472 tons market-
Sunflowers	140	able sugar 1,451 cwt.	157	able sugar 1,079 ewt.
Total	8,863		9,645	

[•] Only cut every third year.

[†] All cut for green fodder.

The practice of fallowing has become very popular in recent years. This is no doubt due to the more enlightened methods adopted, especially in wheat farming, where results have justified the introduction of extensive fallowing in conjunction with heavy manuring. The acreage in fallow in the years 1901, 1906, 1911, 1916, 1921, and each of the last five years was as follows:—

LAND IN FALLOW.

Year ended March-		arch—	Acres.	Year ended Ma	Acres.	
1901			602,870	1926		2,457,136
1906			1,049,915	1927		2,569,021
1911			1,434,177	1928		2,692,044
1916			1,358,343	1929		2,683,462
1921			1,935,747	1930		2,482,662

Nearly all of the fallowed area is devoted to wheat production. Of the 2,482,662 acres in fallow last season, 815,959 were in the Wimmera, 989,548 in the Mallee, and 440,580 in the Northern District. The total for these three districts represented 90 per cent. of the land fallowed in the State.

The increase in the proportion of farmers using manure Manure used. indicates the popularity and the value of this method of treating the soil. The following table shows the number of farmers using manure, and the quantity used, in 1901, 1906, 1911, 1916, 1921, and each of the last four years:—

MANURE USED FOR FERTILIZATION, 1901 to 1929.

	Year.	Farmers using.	Area used on.	Manur	e used— .
				Natural.	Artificial.
			acres.	tons.	tons.
1901		 11,439	556,777	153,611	23,535
1906		 23,072	1,985,148	205,906	60,871
1911		 26,159	2,676,408	205,739	82,581
1916		 33,165	3,870,742	181,268	117.812
1921		 37,835	3,848,184	161,683	150,012
1926		 41,795	4,601,239	142,334	214,234
1927		 43,682	5,148,144	140,410	240,715
1928		 43,962	5,753,116	114,345	257,498
1929		 45,426	6,022,951	120,991	269,967

Note.—The average weight of manure used per acre in each district will be found on page

Portion of the increase in the area on which manure is used is accounted for by the increasing practice of treating pastures with artificial fertilizers. During 1929-30 the quantity of fertilizers imported into Victoria from oversea countries was 199,233 tons valued at £537,828. This included 188,319 tons of rock phosphates valued at £433,633, most of which came from the Pacific Islands.

Persons
employed on
Farming,
Dairying, and
Pastoral
Holdings.

Information is obtained by the collectors of agricultural statistics each year as to the number of persons ordinarily employed upon the land occupied. For the last five years the numbers were as follows:—

# NUMBER OF PERSONS EMPLOYED UPON FARMING, DAIRYING, AND PASTORAL HOLDINGS, 1925 to 1929.

	Year.		Males.	Females.	Total.
1925			98,059	19,124	117,183
1926			96,791	17,619	114,410
1927		- •	95,639	13,841	109,480
1928			98,296	14,508	112,804
1929			101,044	11,553	112,597

Persons absent from their farms for the greater portion of the year following other occupations, as well as temporary hands engaged in harvesting, &c., are not included in the above tabulation, neither are domestic servants nor cooks. Only females who are wholly engaged in outdoor duties are included. It is estimated that the temporary labour employed on farms and pastoral holdings is equivalent to about 30,000 men employed continuously throughout the year.

Wages agricultural and pastoral. In the next return will be found particulars of the rates of wages paid (with rations) upon farms and pastoral holdings during 1929-30. The information has been furnished by the occupiers of holdings.

### WAGES, AGRICULTURAL AND PASTORAL, 1929-20.

Occupations.	Range.	Prevailing Raie.
Ploughmen Farm labourers Threshing machine hands Harvest hands Milkers Maize pickers (without rations) Married couples Female servants Shearers, hand (without rations) , machine (without rations) , rations) Gardeners, market	30s. to 80s. per week 25s. to 70s. per week 1s. to 2s. per hour 10s. to 15s. per day 20s. to 60s. per week 6d. to 9d. per bag 50s. to 90s. per week 20s. to 40s. per week 35s. to 50s. per 100 sheep 40s. to 60s. per 100 sheep 30s. to 60s. per week	50s. per week 45s. per week 1s. 4d. per hour 13s. per day 35s. per week 8d. per bag 67s. 6d. per week 27s. 6d. per week 40s. per 100 sheep 41s. per 100 sheep 40s. per week
" orchard Vineyard hands	35s. to 60s. per week 40s. to 85s. per week	45s. per week 50s. per week

# PASTORAL AND DAIRYING INDUSTRIES.

The pastoral and dairying industries have always been important sources of wealth to the State, and their increasing value in recent years, despite the larger areas devoted to cultivation, indicates that both pastures and stock are, on the whole, steadily improving. The progress of stock breeding is shown in the next table, which gives the numbers of horses, dairy cows, other cattle, sheep and pigs, and their numbers per head of population and per square mile, in each of the last seven ceusus years, also in the year 1930:—

LIVE STOCK IN VICTORIA, 1861 to 1930.

Year	ended Ma	irch—	Horses (including	Catt	le—	Sheep.	Pigs.
·			Foals).	Dairy Cows.	Other.		1 1ga,
			number.	number.	number.	number.	
1861			76,536	197,332	525,000	5,780,896	number. 61,259
1871			209,025	212,193	564,534	10,477,976	180,109
1881		•	275,516	329,198	957,069	10,360,285	241,936
1891			436,469	395,192	1,387,689	12,692,843	282,457
1901			392,237	521,612	1,080,772	10,841,790	350,370
1911			472,080	668,777	878,792	12,882,665	333,281
1921			487,503	620,005	955,154	12,171,084	175,275
1930			393,015	619,416	715,826	17,427,203	265,978
				Per	Head of Po-		200,010
1861			·14	i •37 i	.97	10.70	-11
1871			• 29	29	•77	14.32	$\cdot \overset{1}{25}$
1881			·32	38	1.11	12.01	28
1891			·38	35	1.22	11.13	.25
1901			.33	•43	.90	9.03	·29
1911			-36	51	·67	9.79	-25
1921	.,		32	•41	· 6 <b>3</b>	7.99	-12
1930	.*.		$\cdot 22$	35	•40	9.81	• 15
					Per Square	Mile.	
1861			.87	2 · 25	5.97	65.78	-70
l871			$2 \cdot 38$	2.41	$6 \cdot 42$	119 22	2.05
l88·1			3.14	3.75	10.89	117-88	$\frac{2}{2} \cdot 75$
1891	• •	• •	4.97	4 50	15.79	144 • 43	3.21
1901			4.46	5.94	$12 \cdot 30$	123.36	4.00
1911			5.37	7.61	10.00	146.59	3.79
1921			5.55	7.05	10.87	138 · 49	1.99
1930		•	4:47	7.05	8.15	198.30	3.03

By reducing horses and cattle to an equivalent in sheep on the assumption that one of the former will eat as much as ten, and one of the latter as much as six sheep, interesting comparisons of the stock carried on the land at different periods may be instituted. Calculations made on this basis show that each square mile carried an equivalent of 334 sheep in 1930, as compared with 302 in 1921, 306 in 1911, and 237 in 1881.

On pages 572 to 575 of the 1928-29 issue of this work will be found detailed information relating to the number and size of holdings and the live stock, cultivation, &c., on different sized holdings for the year 1929, also certain comparative figures for the years 1913, 1919, and 1925.

The following tables give information relating to land occupied in each district in March, 1930:—

# LAND IN OCCUPATION IN EACH DISTRICT OF VICTORIA, MARCH, 1930.

(Areas of 1 acre and upwards.)

				A	cres Occupi	ed.	
	Total Area	Number	For	For P	asture.	Other	
Districts.	of Districts.	of Occupiers.	Agricul- tural Purposes.	Sown Grasses, Clover, or Lucerne.	Natural Grasses.	Purposes and Unpro- ductive.	Total.
Central North-Central Western Wimmera Mallee Northern North-Eastern Gippsland Total	acres. 4,065,280 2,929,920 8,775,040 7,394,560 10,784,000 6,337,280 7,220,480 8,739,200 56,245,760	16,782 5,399 11,773 6,128 8,267 11,972 5,160 8,680	462,331 138,868 405,904 1,950,457 3,333,244 1,444,125 143,250 183,741 8,061,920	235,299 36,093 327,252 7,260 11,479 140,013 9,836 373,925 1,141,157	1,842,790 1,999,422 5,431,071 3,609,988 2,270,812 3,735,621 3,779,675 2,577,442 25,246,821	224,521 50,192 536,914 628,843 581,798 59,847 428,746 1,377,560 3,888,421	2,764,941 2,224,575 6,701,141 6,196,548 6,197,333 5,379,606 4,361,507 4,512,668 38,338,319
		PERCENT	AGE OF TOT	AL OCCUPI	ED IN EACH	DISTRICT.	<u> </u>
Central North-Central Western Wimmera Mallee Northern North-Eastern Gippsland Total			16: 72 6: 24 6: 06 31: 48 -53: 78 26: 85 3: 28 4: 07	8:51 1:62 4:88 0:11 0:19 2:60 0:23 8:29 2:98	66.65 89.89 81.05 58.26 36.64 69.44 86.66 57.11 65.85	8.12 2.25 8.01 10.15 9.39 1.11 9.83 30.53	100 · 00 100 · 00 100 · 00 100 · 00 100 · 00 100 · 00 100 · 00
Central North-Central Western Wimmera Mallee Northern North-Eastern Gippsland		22.63 7.28 15.87 8.26 11.15 16.14 6.96 11.71	5 · 73 1 · 72 5 · 03 24 · 20 41 · 35 17 · 91 1 · 78 2 · 28	20°62 3°16 28°68 0°63 1°01 12°27 0°86 32°77	7·30 7·92 21·51 14·30 8·99 14·80 14·97 10·21	5.77 1.29 13.81 16.17 14.96 1.54 11.03 35.43	7:21 5:80 17:48 16:17 16:17 14:03 11:37
Total		100.00	100.00	100.00	100.00	100.00	100.00

It will be seen from these tables that the largest areas under cultivation and the largest proportions of cultivation to land occupied are found in the Mallee, Wimmera, and Northern districts. Of the occupied

land, 54 per cent. in the Mallee, 31 per cent. in the Wimmera, and 27 per cent. in the Northern districts are devoted to agriculture, and these divisions supply over 83 per cent. of the cultivation in Victoria. In the North-Central, Western, and North-Eastern districts the land occupied is largely devoted to grazing; in Gippsland considerable attention is given to the cultivation of grasses, 33 per cent. of all the sown grasses in the State being found in that district.

Areas occupied and stock thereon, in districts.

The next table contains particulars of the distribution of horses, cattle, and sheep on agricultural and pastoral lands in March, 1930:—

### AREA OCCUPIED AND STOCK THEREON, 1930.

Districts.		Area Occ	upied for-		Number of—	•
		Agriculture.	Pasture.	Horses.	Cattle.	Sheep.
		acres.	acres.		,	
Central		462,331	2,078,089	77,877	228,519	1,799,794
North-Central		138,868	2,035,515	19,382	73,030	1,622,538
Western		405,904	5,758,323	52,619	323,890	5,314,595
Wimmera		1,950,457	3,617,248	51,337	29,827	2,267,927
Mallee		3,333,244	2,282,291	55,733	26,767	718,651
Northern		1,444,125	3,875,634	74.625	156,006	2,771,067
North-Eastern		143,250	3,789,511	27,103	201.312	1,521,423
Gippsland	••	183,741	2,951,367	34,339	295,891	1,411,208
Total		8,061,920	26,387,978	393,015	1,335,242	17,427,203

The area occupied does not include 3,888,421 acres which are mostly in an unproductive state.

Live stock in Victoria, 1926 to 1930. each of the last five years:—

LIVE STOCK IN VICTORIA, 1926 to 1930.

Live	Stock.		1926.	1927.	1928.	1929.	1930.
Horses foals) Cattle—	(incl	ading	463,051	447,988	428,666	412,877	393,015
Dairy C		iding	727,940	673,089	626,139	615,092	619,416
calve Sheep Pigs			785,847 13,740,500 339,601	762,672 14,919,653 284,271	700,938 15,557,067 212,785	689,334 16,498,222 222,084	715,826 17,427,203 265,978

Comparing 1930 with 1929, sheep increased by 5.6 per cent. and cattle by 2.4 per cent. while horses decreased by 4.8 per cent.

The peak period for horses was 562,331 in 1914, since when, owing to the increased use of motor vehicles for transport and tractors on

farms, there has been a fairly constant decrease in the number each year. The decline in the last ten years amounted to 23 per cent.

The number of sheep in the State in 1930 established a record.

In the subjoined table will be found a statement of the average and the range of prices of live stock ruling in Melbourne during the years 1928-29 and 1929-30. The information has been extracted from the Melbourne Stock and Station Journal:—

PRICES IN MELBOURNE OF LIVE STOCK, 1928-29 AND 1929-30.

			920	<i>3-2</i>	39	AN	עו	15	29-	- <b>3</b> ∪.	·								
Stock.		Pr	ices	in	192	8-2	9.						Pric	es i	n 1	<b>92</b> 9	-30		
	Average	٠.			R	ang	çe.			Av	era	ge.		-	R	ang	ge.	-	
								,											
Horses.		l.	£	8.	d.		£	ε.	d.	£	8.	d.	£	s.	d.		£	8.	d.
Extra heavy draught		6		10			47		0	37	16	0	35	0	0	to	40	10	0
Medium draught Delivery cart		6	27 15	10			31 19		0	27	1		24				29		Ô
Indian Remounts		ŏ	12	ŏ		to		5	ŏ	15	4 14		14 15	0			17		0
Saddle and harness	8 3	6	7	ō		to		5	ŏ	7	9	. 0	6	10		to	18 9	10	0
Ponies		6	9	0			11		0	8	16	Õ	7	10			10		ŏ
Order cart	11 12	6	10	0	0	to	13	10	0 -	12	7	6	12	0	0	to	13	10	. 0
Fat Cattle. Bullocks—																			
Extra prime	19 14 1		17	2	2	to	25	16	0		. 4	. 0	20	6	0	to	28	7	0
Prime		$\frac{2}{1}$	15 13	47			$\frac{21}{19}$		0		10	0	19	5	0	to	25	0	ŏ
Good light and	10 0	-	13	•	0	ш	19	10	0	18	13	0	15	3	0	to	21	3	0
handy weights	14 5	6	11	7	6	to	17	17	0	16	17	0	10	15	۰. ۸		19	0	0
Cows— Best	10.10	.		_	_							٠	10	10	O	U	1.9	U	U
Othere		8	11	0 17			15		9	15	5	0		12		to	16	12	6
Others	9 10	°۱	٥	11	b	ю	10	To	0	9	15	0	8	16	0	to	10	16	6
Fat Sheep.													!						
Wethers (cross)—	0	.	_	_									İ						
Extra prime		4	1	. 1		to to		19	9	1	7	1	1	3	2	to		15	11
Good		1		18		to		16 13	5 0	1	4 0	0 7	1	0		to		12	_1
Ewes (cross)	• •	<u> </u>	٠	10	. 0	•••	1	10	v	-	U	,	0	17	9	to	1	7	11
Extra prime		8		16		to		14	0	1	0	6	0	17	2	to	1	8	4
Prime	$\begin{smallmatrix}1&2&1\\0&19\end{smallmatrix}$			14		to	1		6		17	9				to	ĩ	4	6
Wethers (merino)—	0 19	1	U	12 •	Ų	to	1	8	0	-0	12	11	0	9	8	to	0	17	8
Extra prime	1 11	1	. 1	2	6	to	2	0	4:	1	4	g.	0	18	1	to	7	14	8
Prime		6	1	0	4	to	1	17	3	ī	Ö	1 <b>1</b>		16		to		11	î
Good	1 3	8	0	16	10	to	1	13	0	0	17	9	0	14	6	to	ĩ	7	$\tilde{3}$
Fat Lambs.																			
Extra prime		9			10			13	2	-1	4	2	1	. 1	10	to	1	7	3
Prime		3		17		to	1	11	0	.1	1	0	0	19	4	to	î		10
i	1 1 :	2	0	14	6	to	1	7	5	0	17	6	0	15	10	to	1	1	0
Pigs.																			
Back Fatters—																			
Extra heavy prime	13 12	4	10	16	3	to	16	9	4	12	11	6	9	13	0	to	14	10	6
Extra prime and weighty	10 10	7		17	6	to	12	10	Α		_								
Baconers—	10 10	'	ō	1.7	O	w	12	τO	0	8	5	9	6	11	3	to	10	3	0
Daconers—			5	1	4	to	6	1	10		14	ایا		18		4.	_		
Extra prime	5 <b>1</b> 1			-							14						<i>5</i>	11	- 6
Tirefore motors		3	4	10		to		13	1 3	4	3 12	5 9 5		10		to		11 17	6 9

NOTE .- Prices for dairy cattle are not available.

Stock The following is a statement of the stock slaughtered slaughtered on farms and stations, as well as in municipal abattoirs, during the last three years.

STOCK SLAUGHTERED, 1927-28 to 1929-30.

Υea	r ended June	-	No.	ımber Slaughtered.	
			Sheep and Lambs.	Cattle.	Pigs.
1928			4,732,494	469,610	358,135
1929			5,286,642	466,576	354,339
1930			6.024,702	387,662	347,688

The purposes for which the slaughtered animals were used were as follows:—

# PURPOSES FOR WHICH STOCK WERE SLAUGHTERED, 1927-28 to 1929-30.

Year ended June-	For Butch	ner and Priva	For Export.			
Tear ended 5 duc-	Sheep.	Cattle.	Pigs.	Sheep.	Cattle.	Pigs.
1928	3,800,938 3,631,251 4,162,987	460,668 456,829 381,743	147,224 156,049 128,557	915,545 1,590,573 1,825,019	4,877 · 6,297 1,946	81 81
	For Pres	serving and S	alting.	For B	oiling Dow	n.
Year ended June-	Sheep.	Cattle.	Pigs.	Sheep.	Cattle.	Pigs.
1928 1929 1930	2,830 6,470 9,931	2,353 1,298 126	210,547 198,131 218,799	13,181 8,348 26,765	1,712 2,152 3,847	283 159 251

[·] Including carcasses held in Cool Stores at end of year.

Of the 6,024,702 sheep and lambs slaughtered in Victoria in 1929-30; 1,825,019, or 30 per cent., as compared with 30 per cent. in 1928-29 and with 19 per cent. in 1927-28, were frozen. In 1929-30 the oversea exports included 13,666,929 lbs. of mutton, valued at £248,021, and 47,238,316 lbs. of lamb, valued at £1,279,836.

The importance of the mutton and lamb export trade to Victorian sheep owners is evidenced by the figures in the appended statement showing the particulars of exports in each of the last ten years. The quantities exported in 1920-21 were below the average, owing to the dry condition which had prevailed in the previous year. After a world-wide fall in values, the

season 1922-23 was marked by exceptionally heavy exports of both mutton and lamb at improved prices. In the 1923-24 season the export of mutton practically ceased, while the number of lambs exported was only about 40 per cent of that for the previous year. The abnormal activity in 1922-23 was, to some extent, responsible for the great reduction in exports in 1923-24. Seasonal influences were responsible for fluctuations in the subsequent years.

FROZEN MUTTON AND LAMB EXPORTED.

			Carcasses	Exported.		
Year ended June—		Mutton.			Lamb	
	Number.	Average Weight.	Value.	Number.	Average Weight.	Value.
<del></del>	-	lbs.	£		lbs.	£
1921	372,916	44	362,296	413,170	32	483,359
1922	314,564	49	306,199	872,140	33	751,077
1923	989,456	44	880,472	1,668,059	30	1,493,156
1924	12,945	43	13,757	678,685	32	656,438
1925	87,767	51	95,022	948,032	31	905,743
1926	171,803	47	145,261	1,309,021	33	1,263,511
1927	149,358	49	141,998	1,197,067	33	1,053,502
1928	137,484	44	117,200	778,061	28	639,486
1929	422,215	50	431,440	1,168,358	32	1,096,891
.1930	309,903	44	248,021	1,515,116	31	1,279,836

The dairying industry is one of the principal sources of the wealth of the community. The value of dairy produce in 1930 was £10,923,180, as compared with £11,959,500 in 1929, £11,186,070 in 1928, £10,483,760 in 1927, and £10,364,790 in 1926. The following table shows the numbers of cowkeepers and cows at the end of, and the total production of butter and cheese, in each of the last five years:—

DAIRYING, 1925-26 to 1929-30.

`Year	ended March	ı—	Number of Cow- keepers.	Number of Dairy Cows.	Butter made.*	Cheese made.*
				<del></del>	lbs.	lbs.
1926			58,933	727,940	81,747,291	5,279,009
1927			56,935	673,089	81,995,815	5,997.648
1928			55,356	626,139	84,270,812	5,621,945
1929	, .		54,814	615,092	93,728,516	5,505,932
1930			<b>54</b> ,131	619.416	90,639,652	6,953,949
	· 				<u> </u>	

^{*} Year ended 30th June.

Areas of holdings and numbers and sizes of dairy herds.

Information relating to the classification of sizes of dairy herds on various holdings appears in the 1928–29 issue of this work, page 581.

Butter and cheese made on farms.

The quantities of butter and cheese made on farms in the last five years were as follows:—

#### BUTTER AND CHEESE MADE ON FARMS, 1925-26 to 1929-30.

	Year ended June—				Butter.	Cheese.	
			<del></del>		lbs.	lbs.	
1926					4,734,669	389,893	
1927	, <b></b>				3,887,324	516,063	
1928					3,592,264	217,495	
1929					3,464,539	246,854	
1930					3,469,804	206,055	

Butter and cheese made in factories.

The quantities of butter, cheese, and concentrated, condensed, and powdered milk, casein, and milk sugar made, and of cream sold, in factories during the last five years were as follows:—

BUTTER, CHEESE, ETC., MADE IN FACTORIES, 1925-26 to 1929-30.

Year ended June—	Butter made.	Cream sold.	Cheese made.	Concentrated, Condensed, and Powdered Milk made	Casein made.	Milk Sugar made.
	lbs.	gallons.	lbs.	lbs.	Ibs.	lbs.
1926	77,012,622	388,235	4,889,116	43,646,852	1,503,369	152,783
1927	78,108,491	344,605	5,481,585	48,186,040	1,803,049	350.570
1928	80,678,548	381,794	5,404,450	53,876,662	2,619,855	213,119
1929	90,263,977	471,729	5,259,078	53,948,559	3,340,171	310,426
1930	87,169,848	496,628	6,747,894	51,581,802	2,568,956	234,490

The quantities of milk, in gallons, received at factories and creameries were 197,804,300 in 1925–26, 205,441,560 in 1926-27, 212,983,200 in 1927–28, 226,228,350 in 1928–29, and 220,977,700 in 1929 30.

In 1929-30 there were exported from Victoria to countries outside Australia 40,305,160 lbs. of butter, valued at £2,668,755, all of which was Australian produce. The quantity sent to the United Kingdom was 31,042,702 lbs., valued at £2,041,829. The quantity of cheese exported to oversea countries was 69,671 lbs., and the value thereof, £5,172.

Information relating to the wool clip is obtained direct from the growers, and an allowance is made for the wool on Victorian skins, both stripped and exported. On this basis the production of wool in 1929-30 and earlier seasons was as follows:—

VICTORIAN WOOL CLIP AND ESTIMATED TOTAL PRODUCTION.

Districts.			Wool Clip	o <b>, 19</b> 29–30.			
	Sheep.		Lambs.			Total.	
	lbs.		r	bs.		lbs.	
Central	9,271,230	)		6,432	1	10.037,662	
North-Central	10,225,710			7,777		0.973.487	
Western	34,085,61			8.967		6,664,585	
Wimmera	16,570,673	3	1,13	3,011	1	7,703,684	
Mallee	6,231,729	9	31	4,486		6,546,215	
Northern	17,880,32	7	1,65	0,909	1	9,531,236	
North-Eastern	8,020,65		72	2,761		8,743,414	
Gippsland	7,032,48	4	56	3,122		7,595,606	
1929-30				7,465		17,795,889	
1928–29	,			2,541		24,369,347	
Total Clip $\langle 1927-28 \rangle$				0,098		5,033,646	
1926- 27				3,520		8,177,162	
	84,101,370	)	6,51	2,929	6	0,614,299	
	1926-27.		1927-28.	1928-2	9.	1929-30.	
	lbs.	_	ibs.	lbs.		lbs.	
Wool clip	98,177,162	1	95,033,646	124,369,	347	117,795,889	
Wool stripped from Vic-		ļ				1	
torian skins and on	ì					ì	
Victorian skins ex-				1		ļ.	
ported (estimated)	23,122,459	:	23,769,390	25,509,	241	28,261,000	
Total production	121,299,621	1	18,803,036	149,878,	588	146,056,889	
Total value	£7,876,683	1	£9,701,660	£10,252,	002	£5,694,019	

Of the total quantity of wool produced, the amounts used in manufacturing for each of the last five years were as follows:—1925–26, 22,967,529 lbs.; 1926-27, 31,205,206 lbs.; 1927-28, 25,346,066 lbs.; 1928-29, 25,008,506 lbs.; and 1929-30, 26,008,800 lbs. The quantity used in manufacturing represented  $20\cdot6$  per cent. of the total production in 1925-26,  $25\cdot7$  per cent. in 1926-27,  $21\cdot3$  per cent. in 1927-28,  $16\cdot7$  per cent. in 1928-29, and  $17\cdot8$  per cent. in 1929-30.

Sheep shorn. In 1929–30 there were 14,204,743 sheep and 3,620,557 lambs shorn, as compared with 13,005,239 sheep and 3,565,737 lambs in 1928–29, 12,809,537 sheep and 2,747,400 lambs in 1927–28, 11,863,262 sheep and 2,671,435 lambs in 1926–27, 10,990,842 sheep and 2,899,787 lambs in 1925–26.

Weight of a fleece. The next table shows the production of wool per sheep and per lamb shorn in each of the last five years:—

# WEIGHT OF A FLEECE, 1925-26 to 1929-30.

				7	Weight of a Flee	ce.
· 	Year.			Sheep.	Lambs.	Sheep and Lambs combined.
1007 26				lbs.	lbs.	lbs.
1925-26	• •	• •	• •	7.65	2 · 25	6.52
1926-27				7.76	2.30	6.75
1927–28		• •		6.96	2.15	6.11
1928–29				$8 \cdot 93$	2.33	7.51
1 <b>92</b> 9-30		• •		$7 \cdot 70$	2.34	6.61

Prices of wool.

The following information as to the average prices of wool per lb. which have prevailed during the last three seasons has been obtained from Melbourne wool brokers:—

#### PRICES OF WOOL, 1927-28 to 1929-30.

Class of Wool.	Average Price per lb. in-					
	1927-28.	1928-29.	1929-30.			
GREASY MERINO.						
Extra Super (Western District) Super Good Average Wasty and Inferior Extra Super Lambs Super Lambs Good Lambs Average Lambs Inferior Lambs	35d. to 37d. 32d. to 34d. 26d. to 28d. 22d. to 24d. 18d. to 20d. 36d. to 40d. 29d. to 31d. 22d. to 24d. 18d. to 20d. 11d. to 12d.	29d. to 32d. 26d. to 28d. 23d. to 25d. 20d. to 23d. 13d. to 15d. 30d. to 34d. 24d. to 28d. 17d. to 20d. 10d. to 16d. 8d. to 10d.	19d. to 21d. 16d. to 18d. 14d. to 15d. 12d. to 13d. 8d. to 9d. 20d. to 22d. 15d. to 17d. 11d. to 13d. 6d. to 10d. 4d. to 6d.			
GREASY CROSSBRED.			·			
Extra Super Comebacks Super Comebacks Fine Crossbred Medium Crossbred Coarse Crossbred and Lincoln Super Fine Crossbred Lambs Good Crossbred Lambs Coarse and Lincoln Lambs	31d. to 33d. 28d. to 30d. 25d. to 26d. 18d to 20d. 13·l. to 16d. 26d. to 30d. 20d. to 22d. 15d. to 17d.	26d. to 29d. 23d. to 25d. 20d to 22d. 15d. to 18d. 10d. to 13d. 24d. to 26d. 18d. to 20d. 13d. to 15d.	16d. to 19d. 14d. to 15d. 12d. to 14d. 9d. to 11d. 6d. to 8d. 15d. to 17d. 11d. to 12d. 8d. to 9d.			

#### Production.

# PRICES OF WOOL, 1927-28 to 1929-30-continued.

Class of Wool.	Av	verage Price per lb. i	
01455.01 11 002	1927-28.		1929–30
Scoured.	1 . 11		
Extra Super Fleece	46d. to 48d. 40d. to 44d. 36d. to 38d. 30d. to 32d.	40d, to 44d 36d, to 40d, 30d, to 31d, 25d, to 28d.	24d. to 26d. 22d. to 24d. 18d. to 19d. 15d. to 17d.
RECORD PRICES FOR THE SEASON			
Greasy Merino Fleece , Comeback Fleece , Merino Lambs , Comeback Lambs Scoured Fleece	44}d. 34}d. 51}d. 39}d. 51}d.	47d. 30½d. 37½d. 30d. 48d.	37 <b>‡</b> d. 21 <b>d.</b> 2 <del>4</del> <b>‡</b> d. 22d. 35 <b>‡</b> d.

Tables containing information relating to the numbers of flocks in districts, the sizes of flocks, and the number and sizes of flocks on various holdings, will be found on pages 586 to 588 of the 1928–29 Year-Book.

In the following statement are given the numbers of horses, cattle, sheep and pigs in the various Australian States and New Zealand, according to the latest available figures:—

#### LIVE STOCK IN AUSTRALASIA.

	,	Catt	tle.			
State, &c.	Horses.	Dairy Cows.	Other.	Sheep.	Pigs.	
Victoria	393,015	619,416	715,826	17,427,203	265,978	
New South Wales	534,945	1,023,187	1.761,428	49,870,000	323,499	
Federal Capital Terri-	001,010	1,020,10.	1,.01,120		5	
tory	929	4,7	60	240,445	124	
Queensland	500,104	680,577	4,528,011	20,324,303	236,03	
South Australia	189,054	104,255	100,261	6,186,252	74,906	
Northern Territory	33,703	711	,607	11,803	359	
Western Australia	159.528	74,223	762,423	9,556,823	64,522	
Tasmania	34,336	72,235	142,408	2,091,113	52,899	
New Zealand	297,195	1,440,321	2,325,347	30,841,287	487,793	

The returns for 1929-30 show that there were in that year 2,394 bee-keepers, who owned 53,585 frame and 5,130 box hives, producing 3,043,835 and 53,970 lbs. of honey respectively, and 29,682 lbs. of beeswax. The number of bee-keepers owning 20 hives and upwards was 558, as compared with 569 in the previous season. In 1929-30, the quantity of honey produced in the Wimmera district was 1,536,345 lbs., in the Western district, 413,587 lbs., in the North-Eastern district, 330,117 lbs., and in the Northern district, 316,111 lbs. The more important particulars of the industry for the last five years are given below:—

BEE-KEEPING, 1925-26 to 1929-30.

Season ended May		Number of Bee-keepers.	Number of Hives.	Honey produced.	Beeswax produced	
					lbs.	lbs.
926	• •		3,799	66;192	2,114,807	28,812
927	.,	• •	2,968	54,123	2,370,310	33,238
928			2,521	<b>52,74</b> 8	2,992,860	34,358
.929			2,284	55,247	4,181,571	49,675
930			2,394	58,715	3.097.805	29,682

Active operations for the destruction of rabbits, &c., on Crown lands were first undertaken by the Government in 1880, and from that date to 30th June, 1930, sums amounting to £1,554,864 had been expended in connexion therewith, including subsidies to Shire Councils for the destruction of wild animals. The following are the amounts spent since 1879:—

# EXPENDITURE ON DESTRUCTION OF RABBITS, ETC.

	£				£
1879-S0 to 1888-89	142,963	1923-24			85,489
1889–90 to 1898–99	208,638	1924-25			84,368
1899–1900 to 1908–09	170,050	1925–26			88,874
1909-10 to 1918-19 1919-20	283,693	1926–27	• •		91,929
1919-20 1920-21	36,672 36,158	1927–28 1928–29	• •	• •	85,200
1921-22	40,766	1928-29	• •	• •	81,377
1922–23	47.410	1020-00	••	. • •	71,277

In addition to the expenditure of £1,554,864 referred to above, sums have frequently been advanced from Loan Funds for the purchase of wire netting for supply to municipalities and land owners. The amounts of these advances in the last five years were as follows:—£42,628 in 1925–26, £32,338 in 1926–27, £37,887 in 1927–28, £55,198 in

1928-29, and £20,538 in 1929-30. A complete system, administered by an officer called the Chief Inspector under the Vermin Destruction Act, exists for effectually keeping the rabbits under control.

Rabbits, &c., sold at Melbourne Fish Market in each of the last five years was shown in the following statement:—

# RABBITS, HARES, AND WILD-FOWL SOLD AT THE MELBOURNE FISH MARKET, 1925-26 to 1929 30.

	Year ended June—		Rabbits.	Hares.	Wild-fowl.
1926	••		 pairs. 1,916,460	brace. 783	brace. 14,784
1927	• •		 1,640,028	78	20,406
1928			 1,697,316	*	9,054
<b>19</b> 29	••	••	 1,594,020	Nil	11,316
1930	• •	•	 1,347,168	Nil	7,422

^{*} Included with rabbits.

Large quantities of frozen rabbits and hares and of rabbits, ac., rabbit and hare skins have been exported to oversea countries, the numbers and values for each of the last five years being as follows:—

RABBITS AND HARES AND RABBIT AND HARE SKINS EXPORTED OVERSEA, 1925-26 to 1929-30.

Year ended June—		Frozen Rabbi	ts and Hares.	Rabbit and Hare Skins.			
1641	Year ended June—		Quantity.	Value.	Quantity.	Value.	
1926	• •		pairs. 456,849	£ 53,423	lbs. 3,513,046	579,000	
1927	• • •		403,147	44,999	2,211,153	381,334	
928	••	•	527,988	44,563	2,896,685	549,802	
1929	••		1,624,279	136,273	2,682,567	604,842	
1930	••		1,474,898	123,492	2,604,601	441,074	

#### FISHERIES.

Numbers of men and boats engaged in the fishing men and boats industry at the different fishing stations throughout the engaged in State are given in the following table for the year 1929-30:—

# VICTORIAN FISHERIES—MEN AND BOATS EMPLOYED, 1929-30.

Fishing Stations.	Number of Men.	Во	ats.	Value of
	or men.	Number.	Value.	other Plant.
			£	£
Anderson's Inlet	7	5	260	130
Apollo Bay	3	$\frac{1}{2}$	175	42
Barwon Heads and Ocean Grove	7	4	900	70
Brighton	l ii	7	483	74
Corner Inlet, Welshpool, Toora, and	1 ~.		100	"
Port Franklin	77	64	8,867	3.366
Dromana and Rosebud	28	20	1,323	336
Frankston	14	10	233	309
Reelong	107	55	4,766	1,043
rippsland Lakes	183	126	10,457	
Corona	5	5	31	4,871 125
alta Doca	2		8	
0	8	5	231	8
Wallacasta	9	9.		122
Montone	13		725	177
		10	157	150
Mordialloc, Chelsea, and Carrum  Mornington	100	58	3,254	1,942
	61	37	3,531	998
Portarlington and St. Leonards	77	53	5,467	1,394
Dank Albania	37	24	4,364	488
Port Albert	87	52	4,533	1,653
Port Campbell	2	2	136	19
Port Fairy	45	31	8,290	423
Port Melbourne	46	41	3,693	2,331
Queenscliff	140	73	16,533	1,879
andringham and Black Rock	41	28	5,016	577
Sorrento, Portsea, and Rye	81	. 47	5,225	1,028
St. Kilda	29	15	330	287
Corquay	8	7	195	74
Warrnambool	8	6	502	81
Werribee	8	6	338	102
Waranga Basin	19	17	197	73
Western Port (Cowes, Hastings, Grant-	"		·	'"
ville, Flinders, San Remo, and Tooradin)	129	106	14,348	4,441
Williamstown and Altona	45	32	1,990	574
Wonthaggi	4	4	150	38
Total	1,441	963	106,708	29,225

Melbourne
Fish Market. Fish Market during each of the years 1928-29 and 1929-30
were as shown in the next table:—

# FISH SOLD IN THE MELBOURNE FISH MARKET, 1928-29 AND 1929-30.

		1928-2	.9.	<b>1929-</b> 30.		
	-	Quantity.	Value.	Quantity.	Value.	
			£		£	
Fresh Fish (Victorian)	lbs.	9,299,065	147,235	10,962,450	159,869	
Crayfish Imported Fish (fresh	doz.	28,402	29,822	35,919	31,392	
or frozen)	lbs.	5,400,508	180,017	5,719,976	148,149	
Oysters	bags	9,757	29,271	9,733	24,332	
Total			386,345		363,742	

In addition to the above, 756 cwt. of smoked fish, and 67,770 lbs. of prawns were sold in this market in 1929-30.

Victorian The quantity and value of fish caught in Victorian waters and sold in the Melbourne and Ballarat markets and elsewhere in 1929-30 were as tollows:—

#### VICTORIAN FISH SOLD IN 1929-30.

NF	Markets.			ty.	Val	ue.
Mit	rkeus.		Fish.	Crayfish.	Fish.	Crayfish.
			lbs.	doz.	£	£
Melbourne	• •		10,962,450	9,346	159,869	7,477
Ballarat	• •	• •	504,705	1,147	7,360	918
Other	• •		2,994,201	5,089	43,666	4,071
Total			14,461,356	15,582	210,895	12,466

Fish In connexion with this subject, the quantities and values imported. of the different classes of fish imported are of interest. Particulars of imports from oversea countries in each of the last two years are given in the following statement:—

#### FISH IMPORTED, 1928-29 AND 1929-30.

	1928-	29.	1929-30.		
	Quantity.	Value.	Quantity.	Value.	
Fish—		£		£	
Fresh or Frozen lbs.	3,027,821	79,153	2,663,235	67,788	
Smoked or Dried (not Salted) ,,	28,141	2,022	34,877	2,041	
Oysters in the Shell cwt.	1,308	958	508	420	
Potted or Concentrated, &c —		22,925		25,997	
Preserved in tins, &c lbs.	6,870,852	307,896	6,993,170	335,774	
N.E.I cwt.	2,484	7,012		6,274	
Total		419,966		438,294	

Of the 1929-30 oversea imports of fish preserved in tins, 3,847,692 lbs. came from Canada, 1,097,303 lbs. from the United Kingdom, 771,136 lbs. from Norway, and 658,278 lbs. from the United States of America.

Agriculture in Victoria and Great Britain (England, Wales, and Scotland) in 1929 are, for comparative purposes, placed side by side in the table which follows:—

AGRICULTURE AND LIVE STOCK IN VICTORIA AND GREAT BRITAIN, 1929.

				Victoria.	Great Britain.	
Area		 	acres	56,245,760	56,208,959	
Wheat		 	bushels	$25,\!412,\!587$	47,304,000	
Oats	: -	 	,,	5,058,541	124,453,000	
Barley		 	,,	2,183,325	44.541,000	
Peas		 	.,	193,640	2.248,000	
Potatoes		 	tons	171,747	4,743,000	
Turnips and	l swedes	 	. ,,	1.798*	14.909,000	
Mangolds		 	. ,,	5,539	5,712,000	
Hay		 	,,	963,039	6.286,000	
Horses		 	No	393.015	1,160,278	
Cattle		 	,,	1.335,242	7,190,539	
Sheep		 	,,	17,127,203	23.660,973	
Pigs -		 	,, [	265,978	2,508,760	

^{*} Includes beet, carrots, and parsnips.

#### MINING.

The supervision of mining and the inspection of mines are regulated by Act of Parliament. Authority for all mining operations, whether on Crown or private lands, must be obtained in the prescribed manner, and mining leases giving the right to enter on private land for mining purposes may be issued to another than the owner.

Miners' The taking out of a "miner's right" entitles the holder to prospect for gold on Crown lands. The right may be had on payment of a sum of 2s. 6d. per annum and remains in force for any number of years not exceeding fifteen. The holder is entitled to take possession for mining purposes of a defined parcel of Crown lands, which is called a "claim." The revenue in 1929-30 from miners' rights was £2,062.

Leases for the purpose of mining for gold are granted for a term not exceeding fifteen years at a yearly rental of 2s. 6d. per acre. For mining leases of land to be worked by means of dredging or hydraulic sluicing the yearly rent is 5s. per acre. Other mineral and coal mining leases are also issued at varying rates. The revenue from these sources in 1929-30 was \$5,099

The area of Crown and private lands under occupation for mining purposes on 31st December, 1930, was 57,807 acres. The subjoined table shows the area being worked for different minerals:—

# AREA UNDER OCCUPATION FOR MINING PURPOSES, 31st DECEMBER, 1929 (CROWN LAND AND PRIVATE LAND).

a	arth				acres. 6,850 11,537 727 100 86 17 27 32 6 4 3 9 195 1 18 22 6 461 22 20 10 29	
usorial E	arth				11,537 727 100 86 17 27 32 6 4 3 9 195 1 18 22 6 461 22 20 10	
usorial E	arth				11,537 727 100 86 17 27 32 6 4 3 9 195 1 18 22 6 461 22 20 10	
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isorial E	arth				6 4 3 9 195 1 18 22 6 461 22 20 10	
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isorial E	arth				9 195 1 18 22 6 461 22 20 10	
•					$   \begin{array}{c}     195 \\     1 \\     18 \\     22 \\     6 \\     461 \\     22 \\     20 \\     10   \end{array} $	
	•				1 18 22 6 461 22 20 10	
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al .					57,807	
						30,467

[•] Includes State Coal Mine area.

Certain Gold Mining Leases include the right to mine for Minerals. Certain Mineral Leases include the right to mine for Gold.

The mining industry has been well fostered by the Government, not only in the way of financial assistance but also by means of geological surveys and boring. Apart from the annual expenditure of the Mines Department from consolidated revenue, of which a statement is appended, portions of surplus revenues of past years amounting to £85,000 had been expended or advanced for developmental purposes from 1st July, 1899, to 30th June, 1930. Since 1st July, 1899, £520,421 has been apportioned from loan receipts and expended on mining development; but, apart from £249,399 expended on the State Coal Mine during the years 1909 to 1925, no loan money has been allotted for development for 24 years.

STATE EXPENDITURE ON MINING, 1925-26 to 1929-30.

Item.	Expenditure from Consolidated Revenu							
	1925-26.	1926-27.	1927-28.	1928-29,	1929-30			
	£	£	£	£	£			
Mines Department State Coal Mine Coal Mines Regulation—Sinking	23,569 471,530	25,687 605,218	24,900 621,316	23,649 729,820	23,182 688,253.			
Fund and Depreciation Fund	41,807	54,555	73,567	41,847	130,279			
Diamond drills for prospecting	12,242	12,864	13,323	15,519	9,955			
Testing plants	3,120	2,378	2,980	3,372	3,443			
surveys of mines Mining Development—	3,595	3,791	3,973	3,917	3,567			
Advances to companies, &c.,	10.000	10.650	- 000	0.000	4.550			
boring for gold, coal, &c Miscellaneous	12,368 2,143	10,678 2,065	5,309 1,708	3,029 1,786	4,753 1,943			
		<del></del>						
Total	570,374	717,236	747,076	822,939	865,375			

The advances from loan moneys and revenue to mining companies to 30th June, 1930, for the development of mining, totalled £285,705 (£62,740 from loan moneys, and £222,965 from revenue) of which sum £43,753 had up to that date been repaid. £53,604 realized, and £165,585 written off, leaving £22,763 outstanding. Interest received during 1929-30 amounted to £51, and interest outstanding on 30th June, 1930, to £3,955.

The mineral production of the State (excluding salt) is summarized in the subjoined statement, which contains particulars of the recorded production of all metals and minerals up to the end of the year 1929:—

TOTAL MINERAL PRODUCTION TO 31st DECEMBER, 1929.

Makela and Minanala	Recorded de	uring 1929.	Total Recorded	to end of 1929
Metals and Minerals.	Quantity.	Value.	Quantity.	Value.
	_	**	•	
	Fine ozs.	£	Fine ozs.	£
Gold	26,275	111,609	71,324,805	302,967,801
~	909*	100	1,467,642*	223,039
Silver	· [5 ]		30,577	7,880
Platinum			311	1,671
Diamonds				128
Sapphires, &c.				630
cuppilizes, asi	tons.		tons.	{
Coal, black	. 703,828	813,370	13,896,700	10.834.983
,, brown	1 741 170	178,052	7,501,240	1,253,039
Ore—copper	10	30	18,740	218,620
"tin	0.51	3,545	17,097	977,641
,, and the and the	$2^{24}$	23	104,276	612,078
", silver-lead	·   · -		804	5,992
" iron			5,434	12,540
,,	'   ' '		422	2,009
Wolfram			118	11,785
Gypsum	19 105	6,000	146.062	99,288
Magnesite	97	101	1.988	6,073
Kaolin	1 515	2,330	37,178	48,771
Diatomaceous earth		-,500	8,657	33,137
Pigment clays .		11.	4,496	5,503
Phosphate rock			15,781	16,704
Molybdenite		•	8681	30,911
Fluorspar			623	1,888
Jarosite (Red Oxide)			109	1,359
Bauxite	546	923	1,660	3,319
Bluestone, freestone,	320			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
granite, &c. ‡	.	624,600		11,134,891
Limestone, &c.§	1	, , , ,	-	
,				
Total		1,740,683		328,511,680

^{*} Extracted from gold at the Melbourne Mint. † Concentrates. ‡ From 1866 only. § Record from 1900.

Note.—The value of gold as shown above is based on the average value of Victorian gold received at the Melbourne Mint.

Gold raised in Victoria. The quantities of gold raised in Victoria in different periods are shown in the next table:—

### GOLD RAISED IN VICTORIA, 1851 to 1929.

Period.	Quantity * (Gross ozs.).	Period.	Quantity (Fine ozs.).
1851-60	23,334,263	1916-20	 905,561
1861–70	16,276,566	1921-25	 421,250
1871–80	10,156,297	1926	 49,078
1881-90	7,103,448	1927	 38,538
1891-1900	7,476,038	1928	 33.917
1901-10	7,095,061	1929	 26,275
1911-15	9 161 940		 20,210

Gross ozs. 1851-1900.

The yield has been on the down grade since 1906, the return for the State for 1929 having been the lowest since 1851. The quantities in fine ounces raised in the other principal gold-producing States in 1929 were 377,176 ounces in Western Australia, 9,476 ounces in Queensland, and 7,496 ounces in New South Wales. The total production of gold in the world in 1929, as shown in the United States Mint Report, was 19,496,721 fine ounces.

The yield of gold for the last two years in each mining district of the State, as estimated by the mining registrars, is shown in the following table. The quantities represented by the aggregate figures, which are given in gross ounces, were 21 ounces more than the total output in 1928, and 1 ounce more in 1929.

DISTRICT YIELDS OF GOLD, ALLUVIAL AND QUARTZ, 1928 AND 1929.

ining District.			1928.		1929.			
		Alluvial.	Quartz.	Total.	Alluvial.	Quartz.	Total.	
A		ozs.	ozs.	ozs.	ozs.	ozs.	ozs.	
Ararat and Stawell	• •	130	170	300	110	290	400	
Ballarat		507	574	1,081	490	280	770	
Beechworth		5,401	6,230	11,631	2,332	6,540	8.872	
Bendigo		573	17,100	17,673	585	13,350	13,935	
Castlemaine		1,416	3,710	5,126	1,150	1,740	2,890	
Gippsland		344	479	823	400	765	1,165	
Maryborough	• •	306	340	646	400	350	750	
Total		8,677	28,603	37,280	5,467	23,315	28,782	

Particulars relating to the operations of dredging and solutions sluicing plants for the last five years are as follows:—

# DREDGING AND SLUICING, 1925 to 1929.

Year.		Number of Plants.	Area Worked.	Quantity of Material Treated.	Gold Obtained.	Tin Obtained.
1925 1926 1927 1928 1929	•••	19 19 9 6 6	acres. 22 11 28 12 6	cub. yds. 1,332,600 539,200 900,500 1,227,000 682,400	ozs. 7,184 3,554 4,440 5,689 1,774	tons- 69 29 44 61

The yield of gold in 1929 per cubic yard of material was 1.2 grains. Since the inception of dredge mining 1,902,998 ounces of gold and 1,796 tons of tin have been won by this system.

The quantity of tailings treated at old lode and alluvial mines by the cyanide process and the yield of gold therefrom are shown in the subjoined table for the last five years:—

# CYANIDATION, 1925 to 1929.

	Year.		Number of Plants.	Quantity of Tailings Treated.	Yield of Gold.	Value of Yield.
1925 1926 1927 1928 1929	••	••	 14 7 8 8 10	tons. 8,344 7,748 11,060- 6,397 4,047	ozs. 971 1,323 1,672 1,199	£ 3,281 5,028 6,214 4,240 2,838

Records show that the total amount of tailings which have been treated by the cyanide and other processes is 16,032,135 tons, and that the gold which has been won thereby amounts to 1,286,695 ounces, which is equal to an average yield of 1 dwt. 15 grs. per ton.

Batteries for testing small quantities of ore for prospectors have been erected by the Government in various mining districts. The number of these plants and their operations in the last five years were as follows:—

### GOVERNMENT BATTERIES, 1925 to 1929.

	Year.		Number of Batteries.	Quantity of Ore Treated.	Yield of Gold.
1925			31	tons. 895	ozs. 776
1926			31	476	618
1927			31	643	999
1928	••		31	1,369	1,405
1929			31	1,810	1,478

Since 1897, the year in which the first battery was erected, 79,389 tons of ore have been crushed for 56,743 ounces of gold.

Bituminous coal is found in three main areas in the southern portion of the State, viz., the Wannon, the Otway, and South Gippsland. The Wannon area is comparatively unprospected, owing to almost the whole of the land having been sold. In the Otway area bores have been sunk without disclosing seams of payable thickness. The South Gippsland area occupies about 2,000 square miles, and coal mining is being carried on at Wonthaggi, Kilcunda, Outtrim, Jumbunna, and Korumburra.

The brown coal beds of Victoria have an approximate area of 1,200 square miles, and are reputed to be the thickest known. At Morwell, 780 feet of coal were passed through in a bore 1,010 feet deep. It is estimated that the average thickness of the coal in the deposits at Morwell, Alberton, and Altona is 50 feet, and that the total deposits in the State amount to 11,000,000,000 tons. These deposits are practically untouched, as the total output of brown coal for all years has been only 7,501,240 tons, valued at £1,253,039, nearly all of which has been produced at the mines at Morwell and Yallourn under the control of the State Electricity Commission.

The State coal Mine at Wonthaggi, on the Powlett River, was opened in November, 1909. In June, 1911, the control of the mine was transferred to the Railways Commissioners. The area reserved for mining is about 17 square miles. Boring has proved that about 28,000,000 tens of coal existed in the central area of 5 square miles. The output of coal for the year ended 31st December, 1929, was 634,805 tons, valued at £730,026. The total output up to the end of 1929 was 9,297,805 tons, valued at £7,858,707. The average number of men employed at the mine throughout the year ended 31st December, 1929, was 1,615.

The quantity of coal, exclusive of brown coal, raised in Victoria up to the end of 1929 was 13,896,700 tons, valued at £10,834,983. The total quantity raised prior to 1892, the average annual production for different periods from 1892 to 1920, and the production for each of the years 1921 to 1929, together with the value per ton at the pit's mouth, are given in the following table:—

#### COAL PRODUCTION AND VALUE PER TON.

								· — —
		Period.			Average Annual Production.	Average Annual Value per ton at pit's mouth.	- (	orina Pitata
					tons.	s. d.		
	Prior to 1892				*77,914	18 8		5 5 5 5
	1892-1900				184,517	9 11		1
	1901-10				168,548	11 8		
	1911–15			1	608,512	9 2	•	
	1916-20				437,833	15 11		
	1921				514,859	23 5		
	1922				559,284	23 9		
	1923	• •			476,823	$\frac{1}{22} \frac{1}{0}$		
	1924				518,315	22 0		
100	1925				534,246	22 4	5	
7.3	1926				591,001	22 3		•
	1927				684,245	22 4		
	1928				658,323	22 2		
	1929				703,828	$\begin{bmatrix} \tilde{2}\tilde{3} & \tilde{1} \\ 1 & \tilde{1} \end{bmatrix}$		
-			15.					1 12 1

Total production up to date mentioned.

The quantities of coal produced in the other States in 1929 were as follows:—New South Wales, 7,617,736 tons; Queensland, 1,368,745 tons; Western Australia, 544,719 tons; and Tasmania, 130,291 tons.

The numbers of fatal and non-fatal accidents in gold and coal mines during the last five years are shown below. Only those non-fatal accidents have been recorded which rendered the injured unfit for work for a period of at least fourteen days.

### MINING ACCIDENTS, 1925 to 1929.

			•	Fold Mines	•	Coal Mines.			
-	Year.		Miners Employed.	Persons Killed.	Persons Injured.	Miners Employed.	Persons Killed.	Persons Injured.	
1925	1. 3		2,353		6	2,593	<b>5</b> .	20	
1926	••	• •	1,967	5	14	2,939	2	6	
1927	•••	• • • • • • • • • • • • • • • • • • • •	1,126	Ĭ	<u> </u>	2,492	4	7	
1928	•••	•••	655	2	1	2,224	2	5	
1929		•••	864	$\overline{2}$		2,251	2	8	

As a result of gold mining accidents during the last five years 11 persons were killed, and 22 were injured and rendered unfit for work for a period of at least fourteen days. These numbers were equivalent to annual rates of 1.58 and 3.16 respectively per 1,000 employed. Coal mining accidents during the same period accounted for 15 deaths, and 46 injuries resulting in disablement for at least fourteen days, these being equal to yearly rates of 1.20 and 3.68 respectively per 1,000 employees.

The quantity and value of stone raised from Victorian quarries during the last five years were as set forth in the following table:—

## QUARRIES, 1925-26 to 1929-30.

Year ended June—		Number of Quarries.	Qua	Approximate			
			Bluestone.	Sand- stone.	Granite.	Limestone.	Value of Stone Raised.
				<del></del>	-		
		1.0	c. yds.	c. yds.	tons.	c. yds.	£
<b>192</b> 6		127	1,650,461	6,000	5,377	300,708	587,910
1927		116	1,941,739	8,368	6,848	308,095	700,200
1928		108	1,797,523	3.904	5,091	289,478	652,800
1929	(	99	1,487,410	3,633	6.893	250,253	602.900
1930		84	1.515.559	8,307	10.846	255,015	624,600

In 1929-30 the number of persons employed in quarries was 1,780, and the wages paid amounted to £441,083. These figures include the employees and wages connected with stone-breaking and tar-paving works, most of which are carried on in conjunction with quarries and cannot be separated therefrom.

#### MANUFACTURING IN VICTORIA.

It can be said with confidence that the State of Victoria has advantages which should make possible great development in manufacturing industries.

A comparatively compact territory with a temperate climate producing a rich variety of raw materials, an intelligent labour supply supported by almost unlimited power resources, and a growing home market served by an ever-increasing network of railways and other communications leave few other essential requirements except the attraction of capital into the industries, the efficient organization of production, and the extension of markets for the product.

Statistical records of factories date from 1850, when the number of factories in Victoria was 68. In 1900 the total had reached 3,097, employing 64,207 persons, and fairly regular expansion has since taken place concurrent with the increase in the population and consequent extension of the home market, until in 1929-30 the total number of factories was 8,195, employing 151,009 persons. Within the last ten years the number of factories has increased by 25 per cent., the number of persons employed by 4 per cent., the amount of salaries and wages paid by 43 per cent., the value of output by 16 per cent., the value of machinery and plant, land and buildings by 103 per cent., and the horse-power of factory machinery by 156 per cent. Within this period many new industries have been established, of which perhaps the most important is the opening of the brown coal deposits at Yallourn for generation of electricity and the manufacture of briquettes, an undertaking which is likely to have the most far-reaching effect on the future development of Victorian manufacturing.

Figures for the past three years give evidence of a check in the development of manufacturing industries. A depression which prevails at present in Victoria and the other states of Australia was not intense until the last quarter of the year 1929–30, and it is not reflected to any great extent in the manufacturing statistics now published.

The number of factories decreased by two since the year 1928-29, and the numbers of persons employed by 5,559. The fall in the value of output was £5,086,364, or 4 per cent. on the value for the preceding year, but this was contributed to largely by the drop of £3,330,154 in the cost of materials used.

The appended table summarizes particulars which indicate the growth of manufacturing industry since 1911. The figures for 1927-28, 1928-29, and 1929-30 have been increased by the inclusion of statistics

relating to the bakery industry (see page 428), and allowance for this should be made when comparing the figures for the last three years with those of previous years.

# GROWTH IN THE MANUFACTURING INDUSTRIES.

			Value of		Value of	ety nyu vitininy
	Number	Number	Plant,	Amount of Salaries	Materials	Value
Year.	of Factories	of Persons employed.	Machinery, Land, and	of Salaries and Wages	used (including ~	of Output.
1.6	r accortes	employeu.	Buildings.	paid.	containers).	the second second
		11-1-1		_	•	Harris III
. 1	2	3	: <b>4</b> : 0:	: <u>5</u> 7. <b>5</b> 1	6	77116
7.75		. Tr (200		er in the interest	F 30 70	. 2 1756 141.
135.55.3			£	£	£	£
1911	5,126	111,948	18,257,889	8,911,019	25,029,525	41,747,863
1912	5,263	116,108	19,457,795	10,102,244	27,002,302	45,410,773
1913	5,613	118,744	20,775,738	10,714,336	28,465,699	47,936,647
1914	5,650	118,399	21,975,646	11,099,940	28,986,694	49,439,985
1915	5,413	113,834	22,529,072	11,036,345	30,728,743	51,466,093
1916-17	5,445	116,970	23,784,289	11,833,517	37,103,350	60,047,284
1917-18	5,627	118,241	25,460,282	12,502,601	42,133,636	67,066,715
1918-19	5,720	122,349	27,318,735	14,080,403	52,098,737	80,195,677
1919-20	6,038	136,522	30,804,520	17,702,173	65,563,104	101,475,363
1920-21	6,532	140,743	35,392,735	21,377,216	65,401,425	106,008,294
1921-22.	6,753	144,876	40,992,280	23,846,495	60,352,561	106,243,181
1922-23.	7,096	152,625	46,423,240	25,457,192	62,568,163	111,286,343
1923-24.	7,289	156,162	53,196,475	27,472,084	62,217,874	113,921,927
1924-25.	7,425	154,158	61,031,975	29,057,052	65,205,233	118,177,398
1925–26.	7,461	152,959	60,396,500	29,329,400	67,164,445	119,986,439
1926-27.	7,690	161,639	63,850,005	31,822,589	69,816,935	127,397,951
1927–28.	8,245	160,357	67,507,020	32,087,851	69,637,778	128,465,317
1928-29.	8,197	156,568	69,909,370	31,533,586	70,100,456	127,897,463
1929-30.	8,195	151,009	72,011,020	30,517,535	66,770,302	122,811,099

Note.—Up to the year 1915 inclusive the statistics relate to the calendar year; for subsequent years they relate to the year ending 30th June.

Prior to 1924-25, column 5, Salaries and Wages Paid, was not inclusive of amounts taken by working proprietors as drawings.

The first Factories Act in Victoria was passed in 1873, wages Board Legislation.

The first Factories Act in Victoria was passed in 1873, and since that year many other Acts dealing with the subject have been placed upon the statute-book. The Factories and Shops Act 1928 consolidated all Acts passed prior to that date. The general provisions of factory legislation, including "Wages Boards," are fully dealt with in Part VII., "Social Condition," of this Year-Book.

In estimating the relative importance of various industries or the value of manufacturing industry as a whole, the method used is to calculate the value added in the process of manufacture, termed "added value." This is arrived at in the following way:—From the value of output of each industry are deducted the most important items of manufacturing expense such as costs of raw materials, containers, fuel and light, repairs to plant and machinery, replacement of tools, and any other important cost of manufacture, the difference being the value added to raw materials in the process of manufacture, and representing the fund available for the payment of wages, rent, interest, minor expenses, and profit.

It is considered that an inaccurate idea would be obtained by using the total value of output of manufacturing industries in year to year comparisons, owing to the duplication of materials used, the finished product of one process of manufacture forming, as it often does, the raw material for another. Woollen manufactures might be cited as an example. Greasy wool forms the raw material for the woolscouring industry, the product of which is scoured wool. This is afterwards combed into wool tops which are used in the spinning mills for the manufacture of yarn. In due course the yarn is woven into cloth, the raw material for the clothing industry. If these processes are carried out separately in different factories it is evident that the value of the wool would be counted five times by using value of output as the basis for annual comparisons of manufacturing production.

Added value prevents this double counting, gives a truer picture of the relative economic importance of industries, and also provides a good basis for estimating and comparing productive efficiency in manufacturing.

As added value is based on value of output, the added value per employee is affected not only by output per employee, but also by the

price obtained, and should, therefore, be corrected to allow for variations in price levels. Another important factor is the quantity and efficiency of the machinery used in the process of manufacture.

The following table shows the value added per person employed in each class of manufacturing industry for the year ended 30th June, 1930:—

### VALUE ADDED, 1929-30.

		_ <del></del>	
Class of Industry.	Average Number of Persons Employed.	Value Added.	Value Added per Person Employed.
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		- 27	
gath (Olash Malas and Section	🐧	1 11 11 11 1	
Spot of the state of the		£	£s. d.
1. Treating raw materials product of	***		
agricultural and pastoral pur-		11.5	
suits, &c	3,232	1,302,222	402 18 4
2. Treating oils and fats-animal,			
vegetable, &c	823	548,141	666 0 7
3. Processes in stone, glass, clay, &c.	5,026	2,086,066	415 1 l
4. Working in wood	6,509	2,227,475	342 4 4
5. Metal works, machinery, &c	25,439	8,349,136	328 4 0
6. Connected with food and drink,			
&c	20,628	10,263,873	497 11 5
7. Clothing and textile fabrics, &c	53,115	12,078,359	227 8 0
8. Books, paper, printing, and engrav-	]	0.004.000	040 0
ing	11,451	3,984,993	348 0 1
9. Musical instruments, &c.	466	172,442	370 0 11 429 1 0
10. Arms and explosives	506	217,100	429 1 0
II. Vehicles and fittings, saddlery,	7,646	2,330,467	304 15 11
harness, &c.  12. Ship and boat building and repair-	7,040	2,000,404	204 10 11
ing	385	125,444	325 16 7
13. Furniture, bedding, upholstery	4.117	1,205,832	292 17 10
14. Drugs, chemicals, and by-products	2,522	1,529,078	606 5 11
15. Surgical and scientific instruments	246	85,701	348 7 7
16. Jewellery, time-pieces, and plated		00,.02	
ware	1.077	320.967	298 0 5
17. Heat, light, and power	3,231	2,613,937	809 0 4
18. Rubber and leatherware, n.e.i	4,143	1,665,537	402 0 3
19. Minor wares, n.e.i	447	152,598	341 7 8
Total	151,009	51,259,368	339 8 11
			·

The table hereunder has been compiled in an endeavour to supply comparable figures of the value added per employee in Victorian factories for each of the past ten years.

In recent years various alterations have been made in the method of arriving at this important concept, following recommendations by Australasian statisticians in annual conferences, the objects of which are to improve the statistics and to obtain uniformity throughout the Commonwealth.

The result is that any calculations of added value based on past published statements would not be strictly comparable.

The value added percemployee has been recalculated, using the

latest year as base and adjusting the previous years.

Prior to 1927-28, bakeries were not included, but the effect of their inclusion is relatively small. In 1927-28, value added per employee in Bakeries was £371 12s. 11d., in 1928-29 £410 18s. 8d. and in 1929-30, £415 4s. 1d. To exclude these from the aggregate figures would reduce the added value per employee to £334 14s. 3d. in 1927-28, to £337 2s. 9d. in 1928-29, and to £337 18s. 9d. in 1929-30.

#### VALUE ADDED IN MANUFACTURING.

		* + 7 -			**
Year.	Value of Output.	Expenses of Manufac- turing.*	Value Added.	Average Number of Persons Employed.	Value Added per Person Employed:
1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27	£ 101,475,363 106,008,294 106,243,181 111,286,343 113,921,927 118,177,398 119,986,439 127,397,951 128,465,317	£ 68,524,324 68,878,822 63,978,488 66,459,537 66,410,960 69,611,632 71,784,661 74,774,770 74,667,052	£ 32,951,039 37,129,472 42,264,693 44,826,806 47,510,967 48,565,766 48,201,778 52,623,181 53,798,265	136,522 140,743 144,876 152,625 156,162 154,158 152,959 161,639 160,357	£ s. d. 241 7 3 263 16 2 291 14 7 293 14 1 304 4 10 315 0 9 315 2 7 325 11 2 335 9 9
1928–29 1929–30	127,897,463 122,811,099	74,872,184 71,551,731	53,025,279 51,259,368	156,568 151,009	338 13 5 339 8 <del>1</del> 1

^{*} Expenses of manufacturing includes the following costs only:—Raw materials, containers, fuel and light, tools replaced, repairs to plant and machinery, lubricating oil, and water.

In the year 1902 the classification of industries for statistical purposes, as shown in the next table, was adopted by the Statisticians of Australia. A factory was defined as an establishment employing on the average four persons or more, or an establishment employing less than four persons where machinery is worked by other than manual power, whether the business carried on is that of making or repairing for the trade (wholesale or retail) or for export. The table shows for the year 1929-30 the number of factories in each industry, the horse-power used, the average number of persons employed, the wages paid, the values of materials and fuel and light used, and the value of articles produced or work done, and has been compiled from returns rendered compulsorily by all factory proprietors:—

Column 3 deducted from column 2 gives column 4, which when divided by column 5 gives column 6.

## FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1929-30.

			Á	verage Num Em	ber of Po	orsons		Va	alue of—	
Nature of Industry.	Number of Factories.	d Horse-power o	Working Proprietors.	ales.	Working Proprietors.	males.	Wages paid '	Fuel and Light used.	Materials used, including Containers,	Articles Pro- duced or Work Done.
	Num	Actual E	Work	Empl	Work	Empl		10.		
						<u>.</u>				
Class I.—Treating Raw Material the product of Pastoral Pursuits, or Vegetable Products, not otherwise	*		S to	1 4 4 7			£	£	£ .	
classed. Boiling down, bone milling Sausage skins	19	1,072 30	13 5	271 252		4 1	78,652 67,437	$25,374 \\ 657$	216,460 106,551	359,672 209,405
Tanning Fellmongering	44 33	3,840 1,846	57 18	$1,754 \\ 429$		27 2	449,027 111,480	33,288 21,853	1,417,919 1,156,831	2,197,709 1,411,324
Chaffoutting and grain crushing  Total	$-\frac{132}{234}$	2,150 8,938	32 125	355 3,061	1 - 1 - 1	12	92,554 799,150	93,091	99,451 2,997,212	257,187 4,435,297
Class II.—Oils and Fats, Animal and		ļ———								
Vegetable. Oil, grease, glue Soap and candle	9 17	651 828	10 8	155 492		5 153	41,231 138,450	13,790 31,282	195,780 636,295	307,218 1,138,963
Total	26	1,479	18	647		158	179,681	45,072	832,075	1,446,181

Class III.—Processes relating to	· · ·			: •	: i	- 1				
Stone, Clay, Glass, &c.	11.231	- 54 to 1	1:31	1000	1. 1.	11 4,440	, riggorgati			1 004 450
Bricks, tiles, pipes, and pottery	77	8,838	- 52	2,005		108	483,873	214,917	125,978	1,084,452
Cement, including cement tiles and	3.7	11,808	10	812		5	209,201;	182,868	304,452	1,079,503
pipes to a Krawa saja		1. 1.41	. 4		1979	10.00	Managa	250,331	Liga ditaga	630,434
Glass, including bottles	25	1.854	19	792		21	216,496	57,983,	161,967	
Marble and stone dressing	The second	846	45	417		7	120,111	3,870	75,419	243,677
Modelling	l'	798	61	520		13.	142,512	4,432	181,759	426,624
¥	10	616	7.	131		i	31,953	21,046	20,783	87,995
Lame and aspestos		0.0,		i	: `````		1000		101111	100 100
paratiple of <b>Total</b>	249	24,760	194	4,677		155	1,204,146	485.116	870,358	3,552,685
	1)	24,7,00							2 7 10	1000
Class IV. Working in Wood.	111		**	17 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7					173,543,543	365,631
Boxes and cases	47	1.525	34	387	1 1	6	112,177	4,788	188,975	
Cooperage	7.0	435	8	255		1	85,073	2,572	68,966	186,818
Saw-milling, joinery, &c.	1 070	10,533	201	3,083		64	787,292	30,214	1,140,230	2,240,044
Forest saw-mills	100	3,945	181	1,695		6,	430,639	4,590	144,767	876,376
Wood carving, turning	000	1,393	71,	480		36'	131,096	5,293	142,776	342,092
1,		1,000	· (†)	1 077%		3.54	1 17 1111	2 - 45 - 141	7711 1 1	1 1 1 1 1 1 1
Total Congression.	633	17,831	495	5,900	1	113	1,546,277	47,457	1,685,714	4,010,961
Class V Metal Works, Machinery, &	g	-				1	f	4,		
Class V.—Breat Works, machinery, &	- EO	2,656	68	2,469		102	603,817	41,540	537,545	1,378,287
Agricultural implement			9	138	・・	5	34,635	1.535	33,477	80,023
Art metal works		195				39	261,400	13,801	210,912	576,545
Brass and copper		1,019	95	1,018	$^{\circ}1$		1,430,346	73,976	1,483,434	3,607,883
Engineering		7,984	308	5,238	1	147		91,840	861,672	2,245,262
Ironworks and foundries		7,034	169	3,468	1	245	884,857			3,810,552
Railway workshops		4,704		6,455		7	1,635,683	78,229	1,594,998	240,835
Stoves, ovens	23	779	25	399	• •	13	104,397	11,191	73,047	
Tinsmithing	104	1,079	: 78	1,687		289	388,896	19,875	682,083	1,366,470
Wireworking	26	771	34	382	1.	30	106,104	3,771	262,495	449,790
Other metal works	56	732	30	- 340		29	89,780	9,124	152,512	312,602
Electrical apparatus	108	1,037	. 73	1,281	$\dots$ $1$	129	312,501	12,706	358,224	839,616
Other	1: 40	794	37	593		1.4	160,487	7,152	310,452	553,000
,	1 000	90 501	000	00 460	3	1,042	6,012,903	364,740	6 560 851	15,460,865
Total		28,784	926	23,468	3	1,042	0,012,808	90-1,140	0,000,001	
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	1 5	H E	Pa-88	) Š	202	ě	Wages paid.	Light used.	including	duced or Work Done.
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Class VI.—Connected with Food and	1	1	ļ		1	ĺ	£	£	£	£
Drink, &c.		1		1			1		_	-
Bacon		1,798	22	496	1	25	144,120	23,075	1,043,360	1,367,179
Butter, cheese	163	7,003	31	2,052		304	586,395	160,649	7,381,477	8,753,102
Meat freezing, preserving	. 13	3,937		887		20	242,496	30,518	1,609,387	2,074,443
Confectionery	140	6,784	81	1,564	13	1,439	548,796	81,767	1,580,120	2,801,299
Oatmeal, starch, &c	14	2.628	5	300	2	214	106,991	21,936	552,120	844,099
Flour-milling, &c.	38	5,591	26	850		22	247,692	52,163	4,355,538	5,106,194
Jam. fruit, sauce, &c.	65	2,832	20	1,602	2	1,130	527,690	39,174	1,715,487	2,876,856
Aerated water, cordial, &c	108	687	76	613	2	107	171,715	8,542	325,816	653,278
Brewing, &c.	9	4,186	1. 41	1,148		5 5	409,815	65,502	1,019,847	2,334,283
Condiments, coffee, cocoa	54	805	8	339	2	294	113,018	7,925	721,521	1,011,687
Distilling	8	752	2	120	·.·.	2	33,896	13,350	178,058	343,819
Ice, refrigerating	52	5,129	32	219		10	75,465	41,427	17,772	210,492
Malt	20	693	-8	284		7	94,022	20,244	398,193	654,408
Tobacco, &c.	12	725	16	897		562	322,842	9,150	1,183,235	2,005,347
Bread, pastry, and cake	464	1,944	392	2,190	63	306	719,055	82,347	1,987,669	3,313,820
Other C. woodings	21	3,965	12	1,247	1	556	355,583	87,859	3,935,803	4,907,617
The graph of the transfer of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	<u> </u>								2,000,000	2,001,017
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Property of the American States & to								.10,020	20,000,400	

Class VII.—Clothing and Textile Fabrics, and Fibrous Material.									٠	
Woollen, cotton mills Knitting, hosiery.		15,427 2,564	21 132	3,086 1,692	62	4,082 6,109	$1,119,622 \\ 1,072,342$	$156,107 \\ 43,862$	2,204,019 2,066,222	4,302,464 4,003,915
Boots, shoes, and accessories	107	3,601	244	5,473	14	5,018	1,926,875	37,457	2,917,920	5,726,739
Boot repairs	070	476	313	268	2	11	121,037	2,897	81,389	255,528
Clothing	485	621	448	1,478	53	6,148	1,197,924	23,743	1,929,630	3,576,817
Waterproof clothing	. 8	79	6	56		191	38,846	926	52,316	117,161
Dressmaking and millinery .	477.4	670	164	344	317	7,231	1,004,976	15,112	1,771,595	3,220,321
Fur	بربر	99	47	174	12	290	88,933	1,640	334,208	498,828
Hats and caps	. 52	602	40	497	5	1,157	283,648	12,306	427,271	867,087
Underclothing, shirt	186	1,208	97	522	42	5,822	829,771	16,775	1,995,312	3,349,541
Sail, tent, rope, twine, &c.	. 30	2,066	25	520		366	168,627	15,062	436,517	765,123
Other	. 41	505	33	253	4	246	101,910	9,006	103,384	265,070
Total	. 2,132	27,918	1,570	14,363	511	36,671	7,954,511	334,893	14,319,783	26,948,594
Class VIII.—Books, Paper, Printin Engraving, &c.	g,									
Paper-making, paper bags, &c	. 49	4,644	33	885	3	891	336,595	81,979	616,094	1,381,797
Photo engraving	0.5	58	32	224	1	. 94	79,802	2,149	37,319	153,324
<u> </u>	. 342	4.090	410	3,736	8	1,508	1,229,799	29,788	946,870	2,793,557
~~	. 118	3,370	108	2,000	2	71	680,948	25,612	886,382	1,933,382
- · · · · · · · · · · · · · · · · · · ·	. 22	82	24	141		8	42,206	893	13,829	72,204
111 1'	. 40	638	35	662		575	230,014	5,757	275,501	641,285
Total	. 596	12,882	642	7,648	14	3,147	2,599,364	146,178	2,775,995	6,975,549
Class IX.—Musical Instruments .	. 20	751	8	423	••	35	106,291	3,483	133,809	310,518
		-} <del></del> -	·		2	<del></del>				
Class X,-Arms and Explosives .	. 8	865		339		167	117,648	19,199	243,269	495,980
	- 1	• <del> </del>	,	(3).	<del>د دې د ده د</del> اه	1		- Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Comm	7	

## FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1929-30-continued.

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	Factories.	0 '	M	ales.	Fe	males.	1000000		<del>1</del> <del>111 11</del>		
Nature of Industry.	Face	ě.	4.77	1		1	The State	100	Materials	1.50	
gforgengte By Styleot for the Junear Benness (1997) Parjora	Number of	Actual Horse-power Engines used	Working Proprietors.	Employees.	Working Proprietors.	Employees.	Wages paid.	Fuel and Light used.	used, including Containers.	Articles Pro duced or Work Done.	
ranger and production of the contract of				1.1		14.5	Ji artu -	1	1.0	1 1 5	
Class XI.—Vehicles and Fittings, Saddlery, Harness, &c.							£	£	£	£	
Coachbuilding  Motor repairs and assembling  Motor body building and repairs  Cerambulators  addle, harness	185 741 73 12 10	1,973 2,644 2,023 45 21	192 557 80 19 12	1,269 3,430 1,704 123 95	1	12 61 68 7 25	336,105 895,479 466,791 27,433 26,854	11,988 37,307 12,280 657 275	221,052 43,346 525,860 39,209 35,636	681,602 1,258,823 1,208,974 76,356 73,756	
138			1	1.1	1.,	1.00	7314		1 1 1	1111	
• Common Total American	1,021	6,706	860	6,611	2	173	1,752,662	62,507	865,103	3,299,511	
goden a to promote the contract of			1,41				1.1.11				
production of the by the area of all	1,11	1,100				11.		2. 1973	2.11		
lass XII.—Ship and Aircraft Building, &c.	14	1,471	14	364		2 (2 ) 2 ( <b>7</b>	99,373	3,924	45,797	176,756	

Class XIII.—Furniture, Bedding, &c.		1		1						
Bedding, upholstery, &c	72	1,223	39	509	1	298	161,554	6,158	378,909	644,873
Furniture	285	3,508	316	2,096		67	519,600	17,496	615,311	1,364,551
Picture frame	13	37	11	61		11	18,084	374	18,655	43,181
Basket, wickerware	16	116	15	167	•• ,		32,425	974	44,424	91,860
Other	39	239	22	280	3	221	97,091	2,096	225,691	383,375
Total	425	5,123	403	3,113	4	597	828,754	27,098	1,282,990	2,527,840
Representation of the second second	11	1100				. 141	<b>3</b>			5 (4.4 + el)
Class XIV.—Drugs, Chemicals, and			1	D +			197,174,73		14.3	The second to
By-products.	( )	117			]		1674-200		19.30	15000
Chemicals, drugs, &c	49	3,340	16	627	3	580	259,503	20,137	509,614	1,077,289
Paints and varnishes	19	570	15	79	• • •	15	24,888	1,923	95,430	150,320
Inks, polishes	20	428	7	176		125	62,811	2,848	262,718	438,034
Chemical fertilizers	9	3,236	1	850		4	227,721	37,115	1,087,680	1,957,385
Essential oils	5.	4	•••	24	••	•	4,765	318	16,320	25,916
Total	102	7,578	39	1,756	3	724	579,688	62,341	1,971,762	3,648,944
$(x,y,y,z) = (X,y,z)^{-1} (X,y,z) + (x,y,y,z) + (x,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{-1} (X,y,z) + (x,y,z)^{$		·	·							1.
Class XV.—Surgical and Scientific										}
Appliances	46	89	28	200	1.	17	56,717	1,701	42,711	131,503
							·			
CI T. T. T. T. T. T. T. T. T.				1		,		1		18 <b>4</b> y 44.05
Class XVI.—Time-pieces, Jewellery,	1.0	040			2	121	218,853	0.011	218,915	552,078
and Plated-ware	118	849	111	843	, Z	121	210,000	9,011	210,910	002,016
Class XVII.—Heat, Light, and								,		
Energy.			1	0.00		en en	i			
Electric light	91	248.193	4	1,223	١	3	354,823	668,478	1,608	1,873,361
Gas, coke	36	2,592	~	901		4	261,547	132,855	1,121,371	2,073,435
Other	ii	5,536	3	506		587	209,723	57,835	706,276	1,498,821
	·							<del></del>	ļ <del> </del>	
Total	138	256,321	7	2,630		594	826,093	859,168	1,829,255	5,445,617
그 수 있는 사람이 되는 음식적	-					<del> </del>	<del></del>			ļ <del>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>

# FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1929-30-continued.

EneModel College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College Colle		1 1 12 1 34 1	910 <u>9</u> 1 21464 141 <b>75</b> 1 4	: Åv	verage Num Emp	ber of Peloyed.	rsons	1247, n	Valı	1e of—	ljadi va PariMfil
$A_{A}(x) = A_{A}(x) + A_{A}(x) + A_{A}(x)$ $A_{A}(x) = A_{A}(x) + A_{A}(x) + A_{A}(x)$ $A_{A}(x) = A_{A}(x) + A_{A}(x) + A_{A}(x)$	,	of Factories.		М	lales.	Fe	males.				
Nature of Industr		Number of Fa	Actual Horse-power Engines used.	Working Proprietors.	Employees.	Working Proprietors.	Employees.	Wages paid.	Fuel and Light used.	Materials used, including Containers.	Articles Produced or Work Done.
Class XVIII.—Rubber an ware (except Saddlery and Rubber goods Fancy leather, belting, &c.	l Harness).	102 60	12,866 594	73 57	2,158 504	1.	1,029 320	£ 682,534 164,331	£ 109,721 7,968	£ 1,586,213 320,561	£ 3,209,032 577,638
Total .	• • • • • • • • • • • • • • • • • • • •	162	13,460	130	2,662	2	1,349	846,865	117,689	1,906,774	3,786,670
	elsewhere		71.4	101 101			,	100	<b>■</b> 120 × 1	0.00	
Toys Umbrella Other Industries		13 5 31	61 15 399	8 4 17	41 33 218	  4	2 81 39	10,666 18,620 59,682	355 226 6,850	15,357 34,487 132,682	30,612 66,991 250,024
Total .	•	49	475	29	292	4	122	88,968	7,431	182,526	347,627
Grand Total .	• •	8,195	465,739	6,330	93,805	633	50,241	30,517,535	3,435,727	66,770,302	122,811,099

Many of the important manufacturing industries in the State have shown a substantial increase in the value of output in the last five years. The output for the years 1924-25 and 1929-30 of a number of leading industries is shown in the following table, the industries being arranged in order of increase in value of output over the period.

#### OUTPUT OF INDUSTRIES, 1924-25 AND 1929-30.

	Value of	Output.	Increase in Five Yea		
Industry.	1924-25.	1929-30.	Value.	Per cent.	
Hosiery, knitting	£ 2,275,145	£ 4,003,915	£ 1,728,770	76.0	
Rubber goods	1,989,793	3,209,032	1,219,239	61.3	
Textile mills	3,433,231	4,302,464	869,233	25.3	
Motor body, motor repairs, &c.	1,625,386	2,467,797	842,411	51.8	
Jam, fruit, sauce	2,090,690	2,876,856	786,166	37.6	
Underclothing, shirt	2,682,606	3,349,541	666,935	24.9	
Railway workshops	3,254,715	3,810,552	555,837	17•1	
Butter, cheese, &c	8,212,788	8,753,102	540,314	6.6	
Mineral oil	317,417	710,002	392,585	123.7	
Condiments, coffee, &c	625,997	1,011,687	385,690	61.6	
Electrical apparatus	494,011	839,616	345,605	70.0	
Distilling	129,655	343,819	214,164	165•2	
Explosives	202,875	376,735	173,860	85•7	
Dressmaking, millinery	3,047,653	3,220,321	172,668	5•7	
Briquetting	49,470	214,547	165,077	333.7	
Furriers	361,257	498,828	137,571	38.1	
Cement, cement pipes and thes	942,034	1,079,503	137,469	14.6	
Stoves, ovens	114,934	240,835	125,901	109.5	
Chemicals, drugs	969,851	1,077,289	107,438	11.1	

### INDIVIDUAL INDUSTRIES.

The salient features of the chief industries are set forth in the succeeding pages.

Tanning was one of the earliest industries established in Victoria; in the year 1850 there were thirteen tanneries in the State. Particulars relating to the industry for the year 1920-21, and the past four years are given in the following table:—

	1 1			1	
Item.	1920-21.	1926-27.	1927-28.	1928-29.	1929-30.
Number of establishments Number of persons engaged	48 2,137	44 2.304	42 1,899	42 1,879	44 1,838
Horsepower of engines used Value of plant and machinery £	3,179 277,160	4,203 426,250	3,948 399,160	4,005 366,680	3,840 336,835
Value of land and buildings £ Salaries and wages paid £ Fuel, light, and power £	338,985 446,231* 35,610	479,505 570,283 41,896	486,370 476,559 39,905	472,830 466,000 33,824	454,580 449,027 33,288
Value of materials used $\pounds$ Value of output $\pounds$ Value added to materials $\pounds$	2,096,554 2,943,173 811,009	1,814,634 2,760,910 886,956	1,724,767 2,623,798 831,315	1,897,630 2,722,296	1,417,919 2,197,709
Materials treated— Cow and ox hides	694,322	660,905	539,327	764,892 624,681	720,999 638,915
Calf hides Sheep and other skins Bark used tons	308,542 1,406,472 10,709	645,945 1,487,458 12,446	465,543 1,275,843 9,792	455,902 1,130,352 10,931	429,373 1,048,002 11,709
Sole leather produced lbs.	14 7	13,559,107	11,959,650	11,916,309	12,624,029

^{*} Exclusive of drawings of working proprietors. † Not available.

The value of leather, mostly glace kid, imported into Victoria from oversea countries during the year ended 30th June, 1930, was £148,249, and the value of leather exported in the same period was £119,962.

The manufacture of soap was also one of the earliest of Victorian industries. In the year 1850 the recorded production of the four establishments then operating was 5,840 cwt. of soap. The following table indicates the development which has since taken place.

Item.	1920–21.	1926–27.	1927–28.	1928–29.	1929-30.
- · · · · · · · · · · · · · · · · · · ·		7 7 7			
Number of establishments	16	18	17	17	17
Number of persons engaged	696	. 705	666	671	653
Horsepower of engines used	472	768	824	851	828
Value of plant and machinery £	164,110	235.705	231,700	240,640	246,020
Value of land and buildings £	135,995	169,845	236,800	188,840	204,895
Salaries and wages paid £	115,749*	145,502	141,241	141,107	138,450
Fuel, light and power £	37,545	40,000	. 35,461	36,628	31,282
Value of materials used £	799,098	646,322	635,309	703,126	636,295
Value of output • £	1,134,820	1,111,040	1,140,394	1,230,451	1,138,963
Value added to materials £	298,177	408,267	437,548	461,697	455,107
Materials treated— -	8 9 T	A	.,	,	200,201
Tallow cwt.	134,431	196,425	196,304	215,519	197,953
Alkali lbs.	4,934,384	8,173,694	7,857,046	9,029,663	8,738,272
Copra oil cwt.	16,882	25,562	26,281	27,182	26,112
Output—			* ' -	.,	,
Soap household cwt.	ا (ا	285,029	282,038	298,343	285,324
"Sand "	225,748	20,060	21,064	48,656	28,346
" Toilet "		20,139	20,628	14,057	14,464
Soda crystals lbs.	1,214,080	3,884,074	3,634,988	3,709,104	3,488,576

^{*} Exclusive of drawings of working proprietors.

Other items of manufacture include soft soap, wool scouring soap, soap extract, candles, glycerine, &c. Soap manufactured in small soap works not classified as factories, and not included above, amounted to 996 cwt. in 1921, 853 cwt. in 1926–27, 874 cwt. in 1927–28, 755 cwt. in 1928–29 and 688 cwt. in 1929–30.

The imports from oversea countries in 1929-30 included 417,252 lbs. of soap valued at £23,981, and 56,712 lbs. of candles, &c., valued at £3,883.

These industries are grouped because some establishpripes and tiles. The ments which produce bricks also manufacture tiles, and
others which produce tiles, also manufacture pipes and
pottery. Factories manufacturing cement pipes and tiles are not included herein, but are grouped with cement and cement products.

	<u> </u>	1 .	1	1	<u> </u>
Item.	1920–21.	1926–27.	1927–28.	1928-29.	1929-30.
		-		İ	
	1. 14 1.			1 1 1 1 1 1	
Number of establishments	92	95	83	76	77
Number of persons engaged	2,794	2,721	2,524	2,321	2,165
Horse-power of engines used	5,547	8,576	8,827	8,459	8,838
Value of plant and machinery £	369,240	529,970	519,710	503,770	499,205
Value of land and buildings £	375,320	535,675	545,260	564,270	581,765
Salaries and wages paid £	*481,352	631,362	576,593	538,952	483,873
Fuel, light, and power £	171,441	264,432	240,254	223,231	214,917
Value of materials used £	105,768	173,889	156,492	142,869	125,978
Value of output £	1,025,105	1,475,557	1,326,205	1,171,830	1,084,452
Value added to materials — £	747,896	987,426	874,882	761,318	703,619
Production—				l`	
Bricks, common . No.	203,425,000	230,914,000	198,775,000	179,528,000	162,676,000
Firebricks No.	1 1	5,114,713	5,502,323	3,453,000	3,595,000
Roofing tiles No.	<b>†</b>	16,114,000	12,030,470	9,254,320	8,939,839
Pipes £	107,133	202,654	171,908	161,771	145,430
Pottery £	177,410	158,071	177,225	124,839	126,708
	1 -				100

^{*} Exclusive of drawings of working proprietors. 

† Not available.

The estimated value of bricks made in 1929-30 was £556,125, being a decrease of £33,543 as compared with the value of those made in the preceding year.

Forest 32w-mills. Detailed information in regard to the forest saw-mills of the State for the five years 1925-26 to 1929-30 is given in the table which follows:—

#### FOREST SAW-MILLS, 1925-26 to 1929-30.

		Number	Value of Machinery	Persons	Amount of	Victorian Timber Sawn.		
		of Mills.	and Plant in Use.	Employed.	Wages Paid.	Quantity.	Value.	
<del></del>			£		£	super ft.	£	
1925-26		215	642,140	2,955	579,795*	109,534,000	711,971	
1926-27		207	573,550	2,862	597,744*	115,813,000	914,334	
1927-28		185	516,800	2,528	536,708*	100,567,000	782,700	
1928-29		171	443,640	1,758	406,582*	79,018,000	676,200	
1929-30	• • •	-169	447,080	1,882	430,639*	86,145,000	681,625	

[•] Including amounts drawn by working proprietors.

A dispute over the question of wages and hours caused a stoppage of this industry for a period of 27 weeks during the year 1928-29.

In addition to the forest saw-mills there were 464 other factories working in wood. Particulars relating to these for the year 1929-30 are given on page 417.

The quantity of timber sawn for firewood consumption in the year 1929-30 was 262,431 tons valued at the saw-mills at £253,580. There is also a large amount of firewood taken from the forests which does not pass through these sawmills, and its value cannot be reliably estimated. The increased use of brown coal briquettes and the extension of the use of gas and electricity for cooking and heating has caused a reduction in the demand for firewood in recent years.

Agricultural and Dairy Machinery Works. Agricultural and Dairy Machinery Works have been tabulated jointly since 1925-26, owing to a revision of the classification of Victorian statistics. Comparable figures are therefore available for the past four years only.

## AGRICULTURAL AND DAIRY MACHINERY WORKS, 1926-27 TO 1929-30.

Year.	No. of	Persons	Salaries	-	Value of-	
	Factories.	Employed.	and Wages Paid.	Fuel and Light Used.	Materials Used.	Output.
			£	£	£	£
1926-27	73	<b>3,</b> 820	931,404	51,620	891,930	2,228,570
1927–28	77	3,353	806,978	57,011	801,008	2,003,855
1928-29	71	3,239	762,977	49,243	738,414	1,885,154
1929–30	72	2,639	603,817	41,540	537,545	1,378,287

In the following table particulars of bacon and ham curing establishments are given for the year 1920-21 and the past four years.

#### BACON CURING.

Item.	1920-21.	1926-27.	1927–28.	1928–29.	1929-30.
Number of establishments	22	21	21	19	19
Number of persons employed	442	560	539	556	544
Horse-power of engines used Value of land, buildings, plant.	1,343	1,821	1,825	1,838	1,798
&c. £	276,295	319,115	340,820	352,260	348,270
Salaries and wages paid £	90,394*	151,622	145,452	147,369	144,120
Value of materials used £	1,098,832	1,063,199	1,097,918	1,109,616	1,043,360
Value of fuel and light £	12,911	20,552	21,507	21,737	23,075
Value of output £	1,335,186	1,425,509	1,426,533	1,409,897	1,367,179
Pigs slaughtered for curing No. Bacon and ham cured—	139,881	230,391	210,547	198,131	218,799
In factories lbs.	13,369,107	19,739,524	19.628.277	18,611,728	18,222,226
On farms lbs.	1,755,993	1,212,786	976.871	789,719	666,317

Excluding drawings of working proprietors.

The number of butter, cheese, and kindred factories in 1929-30 was 163. Of these 133 were making butter, 22 cheese, 3 concentrated milk, 4 condensed milk, 12 powdered milk, 7 casein, and 1 milk sugar. There were also 22 creameries attached to the factories. The following table gives some indication of the value of this industry to the State:—

## BUTTER AND CHEESE FACTORIES, 1920-21 to 1929-30.

		<del></del>	1		1	<del></del> -
Yea	r.	Number of Factories.	Value of Machinery, Plant, Land, and Build- ings.	Persons Employed.	Salaries and Wages Paid.	Value of Output.
			£		£	\$
1920-21	••	184	1,238,745	2,127	414,420	9,194,654
1921-22	••	188	1,395,425	2,351	492,446	7,115,642
1922–23	••	182	1,509,545	2,278	497,816	7,899,377
1923-24	••	184	1,685,530	2,280	511,001	7,974,676
1924–25	•.•.	186	1,812,525	2,427	565,422*	8,212,788
1925–26	••	183	1,889,475	2,213	528,310*	7,631,400
1926-27	• •	182	1,969,280	2,320	552,659*	7,813,409
1927-28		179	2,021,330	2,426	572,907*	8,681,454
1928-29		169	1,931,360	2,449	582,411*	9,614,084
1929-30		163	2,040,085	2,387	586,395*	8,753,102
		1	1	•	1	

^{*} Including amounts drawn by working proprietors.

Further particulars relating to butter and cheese factories will be found under the heading of Dairying on page 393.

## BAKERIES (INCLUDING BREAD, PASTRY, AND CAKES, ETC.), 1927-28 to 1929-30.

Statistics relating to the manufacture of bread, pastry, and cakes were first compiled in the year 1928.

Figures for the past three years only are therefore available and cover about 44 per cent. of the establishments, the remaining 56 per cent. being too small to be classified as factories according to the

statistical definition. In 1927–28, 669 small factories, representing the 56 per cent. excluded from the statistics, used 32,889 tons of flour and produced, among other items, 20,851,188 4-lb. loaves of bread.

The total value of output of the industry as stated hereunder includes the value of all articles produced, but details relating to the output of pastry, cakes, pies, scones, &c., have not been tabulated. It must be explained that the value quoted is the wholesale selling value of the goods produced at the factory exclusive of all selling and delivery costs.

#### BAKERIES, 1927-28 to 1929-30.

* * *			
Item.	1927–28.	1928–29.	1929-30.
Number of factories Average number of persons employed	 519 3,367 1,774	487 3,248 1,822	464 2,951
Actual horse-power of engines used Value of land and buildings Value of plant and machinery Salaries and wages paid	£1,025,220 £344,970 £772,704	£1,087,550 £368,050 £767,117	1,944 £1,019,260 £366,290
Value of materials used Fuel, light, and power used Repairs, oil, and water used	£2,218,452 £86,592 £19,077	£2,045,012 £84,436 £16,828	£719,055 £1,987,669 £82,347 £18,529
Total output Value added in process of manufacture	£3,575,645 £1,251,524 £371	£3,480,992 £1,334,716	£3,313,820 £1,225,275 £415
Value added per employee Flour used—short tons	89,135 52,812,500	90,943 54,656,000	104,069 53,852,013

Meat freezing and preserving works numbered thirteen in 1929-30, and gave employment to 907 hands, the wages paid amounting to £242,496. The approximate value of machinery, plant, land and buildings in that year was £973,280. Further details regarding this industry appear on page 418, and particulars of the output for the past five years are given in the following table:—

Item.		1925–26.	1926–27.	1927–28.	1928-29.	1929–30.
Cattle Sheep Rabbits and hares Poultry Preserved meat— Beef and mutton Rabbits and hares Other meats, &c.	qrs. No. "" cwt.	102,432 1,480,824 913,698 6,906 25,286 -4,327	41,890 1,346,425 806,294 1,764 14,880 - 29 3,700	19,500 915,545 1,055,976 6,234 12,890 4 3,385	6,297 1,590,573 3,248,558 8,732 9,544 3 4,459	7,784 1,825,019 2,949,796 4,872 4,628 2,726

Imports and exports of exports to oversea countries of frozen and preserved meats, other than bacon and ham, during the year ended 30th June, 1930:—

## MEATS IMPORTED AND EXPORTED OVERSEA, 1929-30.

i i ka sa sa ta i s	Import	s.	Exports.		
Meats.	Quantity.	Value.	Quantity.	Value.	
i din dan salah ke da	· <u>- · . · . · . </u>				
<b>T</b>	2.2	: _£		£	
Frozen— Beef Game	300 lbs. 3,351 ,,	6 282	503,264 lbs.	10,47	
Lamb	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		47,238,316 lbs. 13,666,929 ,,	1,279,830 248,02	
Pork Poultry	44,466 lbs. 28 ,,	1,195 3	14,017 ,, 2,436 prs.	481 1,55	
Rabbits and Hares Potted and Concentrated	•	36,662	1,474,898 "	123,495 12	
Preserved in tins Sausage Casings	185,090 lbs. 3,498 cwt.	9,898 43,892	419,432 lbs. 12,248 cwt.	162,93	
Other		239		22,869	
Total value		92,177		1,865,278	

Victorian flour mills produce ample flour, etc., to supply all local requirements and a considerable surplus for export. During the year 1929-30, 179,452 tons of flour, valued at £1,880,057, were exported from Victoria to countries beyond Australia. The following table gives particulars of the industry for the year 1920-21 and the past four years:—

Item.	1920-21.	1926–27.	1927–28.	1928–29.	1929-30.
Number of establishments Number of persons engaged Horse-power of engines used. Value of plant and machinery £ Value of land and buildings £ Salaries and wages paid £ Fuel, light, and power £ Value of materials used £ Value of output £ Value added to materials £ Wheat ground into flour bushels Flour produced bushels Pollard produced bushels Pollard produced owt.	51 947 5.253 873,060 260,760 191,688* 45,121 5,120,260 5,745,507 580,126 12,887,960 260,032 5,927,595 5,927,595 5,038,083	1,094 6,073 603,095 443,080 267,873 50,068 5,017,009 5,789,618 702,232 17,052,350 380,051 7,472,640 7,415,832	42 5,934 652,300 466,400 267,347 53,027 4,866,676 5,665,103 721,590 17,659,570 367,383 7,987,930 7,264,370 28,874	41 985 5,982 634,510 468,600 269,913 53,677 4,593,331 7,98,551 18,545,041 390,286 8,228,720 7,762,370 48,010	38 898 5,591 580,835 431,710 247,692 52,163 4,355,538 5,106,194 677,443 17,227,886 7,238,198 7,667,061 57,276

^{*} Exclusive of drawings of working proprietors.

[†] Not available.

Particulars relating to jam, pickle, sauce, fruit and vegetable canning factories are given in the table hereunder, which shows the main items of output, etc., for the past-five years:

and the second second		100			
Item.	1925-26.	1926-27.	1927–28.	1928-29.	1929-30.
Number of establishments	57	35	35	38	39
Number of persons engaged	2,628	2,246	2,361	2,126	2,261
Horse-power of engines used Value of plant and machinery £	1,651 $291,045$	1,376	1,663	2,148	2,085
Value of land and buildings £	385,205	269,825 384,425	304,130	307,560	286,240
Salaries and wages paid £	446,765	424.196	435,060 466,016	453,390	460,635
Fuel, light, and power used £	31,199	33,982	37.106	393,685 32,815	418,024
Value of materials used £	1,292,172	1,402,976	1,618,263	1,347,853	35,496 1,607,306
Value of output . £	2,177,677	2,217,113	2,660,244	2,202,502	2,592,061
Fruit used cwt.	674,793	792,283	960,004	601,722	1,052,534
Sugar used ,,	209,648	246,170	295,331	253,735	308,012
Output of—		,	200,002	-00,100	000,012
Jams and iellies cwt.	236,345	300,822	340.847	285,636	335,530
Fruit preserved ,,	350,363	335,798	479,928	351,048	510,298
Fruit pulped ,,	168,906	110,420	121,060	57,648	150,647
Sauce pints	9,305,590	7,385,438	7,312,500	7.905,541	8,806,347
Pickles ,,	2,686,500	2,615,267	1,487,990	1,803,764	1,451,693

^{*} Figures for 1925-26 include 21 Fruit Packing establishments.

The following table contains particulars relating to the production, etc., of sugar in the beet sugar factory in which work is carried on under the control of the Victorian Government at Maffra, Gippsland.

A brief survey of the progress of this industry since its establishment was given in the Victorian Year-Book for 1928-29.

	<del>- '</del>				E 72 1 6 5	
	Season	ı.		Area Harvested.	Sugar Beet Harvested.	Sugar Produced.
					## ## ## ## ## ## ## ## ## ## ## ## ##	
				acres.	tons.	tons.
1925-26			• •	1,880	21,194	2,315
1926-27	• •			2,024	9,851	1,177
1927–28				2,353	25,439	2,349
1928-29	4.2			2,130	15,236	2,108
<b>1929–3</b> 0	••	••		2,500	26,525	3,472
a la company	100	~ ,		la e e a caral	l <del>.</del>	

Particulars regarding breweries for the ten years 1920-21 to 1929-30 are set forth in the next table. Machinery and plant were valued at £441,470 in 1920-21 and at £1,007,420 in 1929-30, whilst land and buildings were valued at £391,385 and £714,795 respectively in those years. The wages paid in 1929-30 amounted to £409,815.

BREWERIES.	1920-21	ΤO	1929-30.
------------	---------	----	----------

	Number	TOTACHO .		Materials Used—			Value of Output.
1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30	14 14 14 11 10 9 9	1,054 1,053 1,091 1,186 1,263 1,113 1,156 1,169 1,194 1,153	cwt. 104,140 107,160 110,051 -112,840 113,729 118,310 121,666 116,890 110,968 103,328		Ibs. 736,580 717,950 768,870 796,769 784,080 811,063 831,317 814,812 777,849 619,218	gallons. 22,257,000 22,388,000 23,212,000 23,286,600 24,347,000 26,484,000 25,870,000 24,999,000 21,952,775	£ 2,098,720 2,200,882 2,322,814 2,412,387 2,479,619 2,594,835 2,605,704 2,534,815 2,522,933 2,334,283

The number of distilleries working in 1929-30 was 8, and the persons employed numbered 124, of whom two were working proprietors. The estimated value of the machinery, plant, land and buildings was £402,820. The quantities of materials used in manufacture and of spirits distilled in each of the last ten years were as follows:—

DISTILLERIES, 1920-21 to 1929-30.

		 	Materials	Used.		Spirits
	Year.	Wine.	Malt.	Other Grain.	Molasses.	Distilled.
1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30		gallons. 1,041,890 671,162 1,100,568 1,114,590 1,117,370 1,849,920 1,874,370 1,843,100 1,320,046 1,556,249	bushels. 125,414 58,848 77,717 121,691 92,124 94,784 212,022 113,404 175,833 300,267	bushels. 1,422   11,192 93,781	lbs. 2,682,960 1,167,600 85,120 2,350,880 2,727,650 2,994,880 2,437,920 1,513,792 2,278,080 1,284,528	proof gals. 572,671 390,840 473,152 730,158 561,153 785,595 995,708 709,031 813,562 1,142,762

Spirits made by vine-growers for fortifying wine are not included in the foregoing table. The following quantities were distilled in vine-yards for that purpose during the last ten years:—15,486 gallons in 1920-21, 23,020 gallons in 1921-22, 14,930 gallons in 1922-23, 13,792 gallons in 1923-24, 19,245 gallons in 1924-25, 14,850 gallons in 1925-26, 11,259 gallons in 1926-27, 10,110 gallons in 1927-28, 17,529 gallons in 1928-29, and 18,299 gallons in 1929-30.

The number of tobacco, cigar, and cigarette factories licensed in 1929-30 was twenty-four, of which twelve were too small to be classified as ordinary factories and were consequently not included in the statistical tabulation on page 418. In the year mentioned the remaining twelve gave employment to 1,475 persons who were paid £322,842 in wages, and used machinery, plant, land and buildings valued at £430,970. The subjoined table shows the quantity of tobacco leaf used by and the output of the full number of licensed establishments for the last ten years:—

## . TOBACCO FACTORIES, 1920-21 TO 1929-30.

		7		· · · · · · · · · · · · · · · · · · ·		<del></del>
		ctured Leaf ted on.	1.0	Quanti	ty Manufacture	d.
Year.			<del></del>	<del></del>	· · · · · · · · · · · · · · · · · · ·	13 <del>1</del> 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Australian.	Imported.	Tobacco.	Snuff.	Cigars.	Cigarettes.
75 15 15 15 15 15 15 15 15 15 15 15 15 15						
satisfier	lbs.	lbs.	lbs.	lbs.	number.	number.
1920-21	751,137	5,290,854	6,443,480	228	35,549,722	109,686,950
1921-22	535,590	5,250,641	6,345,508	232	33,893,695	152,908,600
1922-23	540,322	5,628,555	6,709,060	231	32,699,019	99,771,650
1923–24	471,862	4,998,680	5,833,903	99	29,244,981	87,896,350
1924-25	427,152	5,222,496	5,998,437	50	30,794,864	77,840,200
1925–26	449,575	5,055,260	5,879,683	100	29,595,805	70,135,500
1926–27	527,807	4,662,288	5,520,998	. <u></u> -	27,657,963	70,314,868
1927-28	462,279	4,579,586	5,511,072	_	26,688,939	68,537,354
1928-29	450,083	4,585,040	5,351,643	4,527	24,094,483	96,032,175
1929–30	491,936	4,319,954	5,450,116	-	23,739,045	91,309,252

There were thirty-one woollen mills working in 1929-30, and the number of persons employed therein was 6,663, of whom fifteen were working proprietors. The wages paid amounted to £1,036,745, and the approximate value of the machinery, plant, land and buildings was £2,971,850. The value of the raw materials used during the year was £1,978,388, and that of the goods manufactured in the same period, £3,903,164. The quantities of wool and cotton used and of goods manufactured in each of the last ten years were as follows:—

### WOOLLEN MILLS, 1920-21 to 1929-30.

T	Quantity	Quantity	G	oods Manufac	tured-		77-1
Year.	of Scoured Wool Used.	of Cotton Used.	Tweed and Cloth.	Flannel.	Blankets.	Shawls and Rugs.	Value of Output.
1926-27 1927-28 1928-29	9,640,760 7,936,456	lbs. 553,282 586,836 621,490 848,812 544,364 285,482 1,013,077 972,455 832,851 547,307	yards. 2,509,198 1,872,512 1,714,460 1,927,298 1,898,647 3,438,142 4,854,389 6,236,623* 5,979,625* 6,077,129*	yards. 4,035,298 5,759,987 6,622,350 6,095,442 3,594,427 3,618,260 6,213,860 6,879,796* 4,603,874* 3,546,961*	pairs. 224,745 297,700 314,803 377,354 319,026 250,943 327,113 375,125 285,830 190,869	number 47,179 51,598 71,073 115,443 130,094 93,766 116,855 126,603 115,533 123,861	£ 2,397,610 2,482,761 3,264,025 3,561,480 3,433,231 3,976,224 4,581,445 4,680,740 4,308,677 3,903,164

* Square yards.

Particulars relating to factories manufacturing boots and shoes are shown in the following table. Figures for the year 1920-21 include boot-repairing establishments. These were tabulated separately from boot factories in the year 1926-27 and succeeding years. To enable a valid comparison to be made the figures for boot repairing factories are included at the bottom of the table.

Item.	1920–21.	1926-27.	1927–28.	1928–29.	1929-30
Number of establishments	304	204	179	175	175
Number of persons employed	9,212	12,192	11,017	11,041	10,321
Horse-power of engines used	2,498	3,366	2,821	3,176	3,077
Value of plant machinery, land, and buildings \$\frac{\pi}{2}\$ salaries and wages paid \$\frac{\pi}{2}\$ Fuel, light, and power \$\frac{\pi}{2}\$ Value of materials used \$\frac{\pi}{2}\$ Boots and shoes made pairs Slippers (including canvas) made pairs	927,310	1,470,440	1,376,180	1,403,330	1,369,000
	1,208,760*	2,140,054	1,906,127	1,939,069	1,834,816
	24,568	40,565	34,842	34,654	34,284
	2,911,852	3,058,257	2,943,572	3,031,173	2,726,740
	4,964,462	6,105,072	5,657,318	5,810,619	5,375,438
	5,447,504	8,147,282	7,792,702	7,856,996	7,891,133
	559,213	2,100,228	2,188,608	2,492,609	2,567,407
Boot Repairing Factories.  Number of factories Persons employed  Value of plant, machinery, land, and buildings £ Value of materials used £ Salaries and wages paid £ Value of output £	1	272 531 414,350 74,663 101,738 227,636	305 546 418,310 84,602 102,592 244,997	340 567 491,110 83,955 116,849 253,913	372 594 495,270 81,389 121,037 255,528

* Excluding amounts drawn by working proprietors. † Not available.

The decrease in the boot factory figures in the year 1927-28 is largely due to the exclusion of factories making boot accessories.

The value of the output of establishments connected with the manufacture of dress, i.e., clothing, tailoring, clusive of boot dressmaking, millinery, underclothing, hats and caps, &c., but exclusive of boots and shoes, was £15,783,906 in 1929-30, as compared with £12,994,011 in 1920-21. During the period 1920-21 to 1929-30 the persons employed increased by 10 per cent., the wages paid

by 60 per cent., the value of materials used by 10 per cent., and the value of the output by 22 per cent. Particulars of the industry for each of the last ten years are as follows:—

DRESS (EXCLUSIVE OF BOOT) FACTORIES, 1920-21 to 1929-30.

Year.	Number of	Nu	mber of Per Employed		Salaries and Wages	Value of Materials	Value of
	Factories.	Males.	Females.	Total.	Paid.	Used.	Output.
					£	£	f
1920-21	1,346	4,383	25,980	30.363	2,872,171	7,804,264	12,994.01
1921-22	1,424	4,674	27,370	32,044	3,328,326	7.689.101	13,429,230
1922-23	1,526	4.951	28,595	33,546	3,554,303	7.456.539	13,354,23
1923-24	1,501	4.751	26,772	31.523	3.574.059	7,181,020	13,118,47
1924-25	1,500	4.823	26,295	31,118	3,837,919*	7.388.950	
1925-26	1,491	4.862	26.458	31,320	4,022,168*		13,584,190
1926-27	1,535	5,348	28,941	34,289		7,833,863	14,199,570
1927-28	1,517	5,241			4,492,778*	8,530,529	15,517,404
1928-29			28,212	33,453	4,493,366*	7,975,259	14,707,06
1929-30	1,522	5,433	28,272	33,705	4,541,295*	8,426,982	15,505,660
1929-30	1,474	5,915	27,631	33,546	4,594,570*	8,602,639	15,783,900

Including amounts drawn by working proprietors.

Electric Particulars relating to the electric light and power work of the State are given in the next table:—

ELECTRIC LIGHT AND POWER WORKS, 1920-21 to 1929-30.

Year.	Number of Stations.	Horse- power of Machinery.	Value of Machinery and Plant.	Persons Em- ployed.	Wages Paid.	Electricity Supplied.	Value of Output.
1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1925-27 1927-28 1928-29 1929-30	79 84 88 90 84 83 86 86 87	54,189 57,481 72,106 154,622 185,633 188,342 219,626 198,914 235,589 248,193	£ 2,660,945 3,166,750 4,042,910 5,864,065 7,900,455 5,035,460 5,144,035 5,513,630 6,079,300 6,559,245	1,242 1,350 1,451 1,752 2,011 1,149 1,120 1,069 1,153 1,230	£ 283,309 334,805 377,048 462,172 549,849 338,807 323,286 307,490 322,295 354,823	British units, 115,105,000 136,021,000 157,728,000 405,108,000 460,710,000 580,221,000 673,492,000 724,525,000	£ 1,131,33 1,407,26 1,614,13 2,176,55 2,382,58 1,648,11 1,768,51 1,566,11 1,616,07 1,873,36

The decrease in the number of persons and the value of machinery and plant and output in electric supply undertakings for the last five years is due to a change in the method of compilation. In previous years, the figures related to both generation and distribution, but since 1924–25 only those relating to the former are given.

Prior to 1923-24 particulars relating to the Newport power houses controlled by the Victorian Railways Commissioners and the State Electricity Commission had not been included in the statistics, and this accounts for the large increase in the figures for that year.

The principal generating station is now located at the Electricity Commissioner's works at Yallourn, where 319,404,000 units were generated in the year 1929-30.

#### STATE ELECTRICITY COMMISSION.

The State Electricity Commission was constituted by the *Electricity Commissioners Act* 1918, as amended by the *State Electricity Commission Act* 1920, the latter providing for the appointment for seven years of a chairman and three commissioners. The Commission's duties cover—

1. Control of generation, supply and use of electricity in Victoria.

2. Investigation, and where practicable development, of all possible sources of power.

3. Promotion of the use of electricity.

The Commission is empowered to erect, acquire and operate electric undertakings and operate any business associated therewith, to supply electricity to corporations and to persons outside areas in which there are existing undertakings, to frame safety regulations and to issue licences for wiremen. It controls its own funds and all officers and

employees required for the operation of the Act.

A comprehensive transmission system has been established, based upon the brown coal deposits at Yallourn, where the 75,000-kw. station is being duplicated. Two 132,000-volt lines transmit energy to receiving stations at Richmond and Yarraville. A third station (Thomastown) receives the surplus energy from the Sugarloaf-Rubicon group of hydro-stations (37,000 h.p.) in the north-eastern district. There are two peak load stations in the metropolitan area, viz., Newport "B" and Richmond.

The Commission meets nearly all the energy requirements of the metropolitan area, and serves 180 country centres, over 100 of which had no supply previously. As from 1st July, 1931, it will supervise the operation of the Bendigo and Ballarat undertakings (including tramways) until 1st July, 1934, when it will assume full control.

Particulars in regard to gasworks are given below for each of the last five years.

#### GASWORKS, 1925-26 to 1929-30.

Year.	Number of Works.	Persons Employed.	Wages Paid.	Coal Used.	Gas Made.	Coke Produced.	Value of Output.
1925-26 1926-27 1927-28 1928-29 1929-30	35 33 34 35 36	933 959 1,013 936 905	£ 258,764 264,918 290,190 265,536 261,547	tons. 422,783 442,391 437,947 437,651 399,182	cubic feet. 5,801,335,000 5,855,817,000 6,326,887,000 6,424,614,000 6,409,110.000	tons. 273,773 283,998 291,077 279,887 260,437	£ 1,433,090 1,967,485 2,077,058 2,042,896 2,073,435

Oil was used as well as coal in the manufacture of gas, the number of gallons consumed each year being 114,947 in 1925-26, 88,601 in 1926-27, 68,567 in 1927-28, 239,928 in 1928-29, and 2,516,029 in 1929-30.

The facilities afforded in the metropolitan area have had the effect of bringing within that area the more important of the manufacturing industries. The distribution of factories by classes between the metropolis and the remainder of the State, for 1920-21 and each of the last three years, is exhibited in the following statement:—

## NUMBER AND LOCATION OF FACTORIES.

				Numb	er of Fa	ctories.			
Class of Industry.		Metro	polis.			Remai	inder of	State.	-
e filozofia i neli si se se se se se se se se se se se se se	1920-21.	1926–27.	1927-28.	1929-30.	1920-21.	1926–27.	1927–28.	1928–29.	1929–30.
									1
Treating raw material, pro-	ŀ						1		
duct of pastoral pursuits,		0.0	-					1	
&c	95	83	83	. 85	207	160	149	145	149-
animal, vegetable, &c	18	21	19	18	. 9.	10	9	8	8
Processes in stone, clay, glass. &c.	+00	-168	140	150		100			
glass, &c	126 250	336	163 331	156 328	82 330	109 342	98 319	95 300	93 305
Metal works, machinery, &c.	654	807	819	817	209	216	222	216	205
Connected with food and		225		1					
drink, &c. Clothing and textile fabrics,	271	267	592	581	429	465	665	655	619
&c	1,361	1,719	1,750	1,803	348	368	358	342	329
Books, paper, printing, &c.	328	410	407	420	155	172	174	174	176
Musical instruments, &c	15	19	18	20	1			١	
Arms and explosives	11	7	7	8		1	· 1	1	1 .
Vehicles, saddlery, harness,	329	468	100	450	0.45	403	700		
Ship and boat building and	- 329	405	465	473	345	481	506	515	548
repairing	10	- 11	10	12	2	2	. 2	2	2:
Furniture, upholstery, and	1				-	-		-	_
_ bedding	353	448	445	380	- 33	48	. 54	47	45-
Drugs, chemicals, and by-	r						7		
products Surgical and other scientific	83	. 92	98	88	39	22	23	13	14
appliances	32	40	43	42	2	4	3	4	4
Jewellery, time-pieces, and	. 32		40	42	-	*		**	*
plated-ware	100	112	108	111	7	5	7	8	. 7.
Heat, light, and power	69	26	26	29	111	103	104	105	109
Rubber and Leatherware	53	106	116	126		24	28	30	36
Minor wares, n.e.i.	62	. 18	23	45	3			2	4
Total	4,220	5,158	5,523	5,542	2,312	2,532	2,722	2,662	2,653

Since 1920-21 the number of factories in the State has increased by 1,663, the greatest numerical increase in the classes being that of the food and drink factories, of which there were 500 more in 1929-30 than in 1920-21. Increase or decrease in the number of factories is not by itself a good indicator of the growth of manufacturing industry, since a lessening of the number by absorption or amalgamation may result in greater economy in manufacture and increased output.

Employment in The average number of persons employed in each class factories. of industry is shown in the following table:—

### AVERAGE NUMBER OF PERSONS EMPLOYED IN FACTORIES.

Class of Industry.	1920-21.	1926-27.	1927-28.	1928-29.	<b>192</b> 9–30.
Treating raw materials, product	1				
of pastoral pursuits, &c	4,045	4,112	3,552	3,198	3,232
Treating oils and fats, animal,	l	,			
vegetable, &c	835	941	870	880	823
Processes in stone, clay, glass, &c.	5,486	6.117	5,855	5,576	5,026
Working in wood	9,529	9,134	8,265	6,601	6,509
Metal works, machinery, &c	23,276	28,563	27,819	27,340	25,439
Connected with food and drink,			,	[ - 1-	,
&c	17.673	18.881	21,476	20.934	20,628
Clothing and textile fabrics, &c.	44,341	55,101	53,857	53,949	53,115
Books, paper, printing, &c	10,281	11,720	11,618	11,490	11,451
Musical instruments, &c	384	532	471	537	466
Arms and explosives	650	537	511	517	506
Vehicles, saddlery, harness, &c.	6,087	8,236	7,845	8,163	7,646
Ship and boat building and					
repairing	900	388	395	396	385
Furniture, bedding, and uphol-					
stery	3,917	5,460	5,199	4,792	4.117
Drugs, chemicals, and by-					
products	2,564	2,811	2,839	2,791	2,522
Surgical and other scientific	_,	_,			_,
appliances	199	269	269	284	246
Jewellery, time-pieces, and plated-	-00				
ware	1,397	1.044	1,100	1.065	1,077
Heat, light, and power	4,738	2,984	3,029	3,034	3,231
Rubber and Leatherware, n.e.i	1,057	4,496	5.080	4,688	4,143
Minor wares, n.e.i.	3,384	313	307	333	447
Total	140,743	161,639	160,357	153,568	151,009

The method of arriving at this average was altered in the year 1928-29, and it is now taken as the average number employed over the whole year, and not, in the case of a seasonal factory working only for a portion of the year, the average for the period of operation.

The table of monthly employment in factories (see page 452) is designed to show seasonal employment.

The total increase in the number of hands employed during the period covered by the above table was 10,266, which represented an advance of about 7 per cent. An increase of 2 per cent is, however, due to the addition of a new industry in class 6, viz., bakeries (see page 428), included for the first time in 1927–28. The greatest development had taken place in clothing factories, food and drink, and metal works, which showed increases of 8,774, 2,955, and 2,163 respectively in the number of persons employed in 1929–30 as compared with the number in 1920–21. The increase in rubber and leatherware since 1925–26 is mainly due to an alteration in classification by which rubber goods have been transferred from minor wares

An examination of the five-year table hereunder reveals the fact that the greatest and most consistent increase in the number of factories has taken place in the two classes of factories employing four and under four hands.

The abnormal increases in 1927-28 in the smaller classes of factories is largely due to the inclusion for the first time of bakeries.

## FACTORIES ACCORDING TO NUMBER OF HANDS EMPLOYED.

Under 4 hands— Number of Factories 1,879 5.15 2,051 9.15 2,397 16.87 2,585 7.84 2,770 7 Employees 4,011 3.59 4,315 7.58 5,056 17.17 4,907 - 2.95 4,940 0 Number of Factories 797 4.32 811 1.76 955 17.75 823 -13.82 919 11		Sho	owing Annual	Percentage In	crease o	r Decrea	se.	
Under 4 hands— Number of Factories 1,879 5.15 2,051 9.15 2,397 16.87 2,585 7.84 2,770 7 hands— Number of Factories 4,011 3.59 4,315 7.58 5,056 17.17 4,907 — 2.95 4,940 0 Number of Factories 797 4.32 811 1.76 955 17.75 823 —13.82 919 11								
Under 4 hands—     Number of Factories     1,879     5·15     2,051     9·15     2,897     16·87     2,585     7·84     2,770     7       4 hands—     Number of Factories     797     4·32     811     1·76     955     17·75     823     -13·82     919     11		1925–26. Increase	1926–27. Increase.	1927-28. Increase.	1928-29.	Increase	1929–30.	Increase,
Under 4 hands—     Number of Factories     1,879     5·15     2,051     9·15     2,897     16·87     2,585     7·84     2,770     7       4 hands—     Number of Factories     797     4·32     811     1·76     955     17·75     823     -13·82     919     11			-	۵,				
Number of Factories 1,879 5 15 2,051 9 15 2,397 16 87 2,585 7 84 2,770 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Under 4 hands	. %	.   %	%		* %		.%
4 hands— Number of Factories 797 4·32 811 1·76 955 17·75 823 -13·82 919 11	Number of Factories				2,585			
Number of Factories 797 4 · 32 811 1 · 76 955 17 · 75 823 -13 · 82 919 11	4 hands—	ees 4,011 5.59	4,515 7.56	3,050 17-17	4,907	- 2.95	4,940	0.7
	Number of Factories							
,, Employees 3,188 4 32 3,244 1 76 3,820 17 75 3,292 -13 82 3,676 11 5 to 10 hands—	5 to 10 hands—	ees 3,100 4 32	3,244 1.70	3,020 17-75	3,292	-13.02	3,070	11.7
Number of Factories   2,210 -2 17   2,215   0 22   2,301   3 88   2,241 - 2 61   2,049 -8	Number of Factories				2,241	- 2.61	2,049	-8.6
" Employees   15,304   -2.56   15,465   1.05   15,861   2.56   15,391   -2.96   14,124   -8	,, Employees	rees 15,304 -2 · 56 1	15,465 1.05	15,861 2 56	15,391	- 2.96	14,124	-8.2
Number of Factories $\begin{vmatrix} 1.142 - 2 \cdot 31 & 1.125 - 1 \cdot 49 & 1.101 - 2 \cdot 13 & 1.035 - 1 \cdot 45 & 1.013 - 6 \end{vmatrix}$	Number of Factories	es 1,142 -2·31	$1,125 - 1 \cdot 49$	$1,101 - 2 \cdot 13$	1.035	- 1 45	1,013	-6.6
, Employees $ 16,615  - 2 \cdot 65   16,479  - 0 \cdot 81   16,160  - 1 \cdot 93   15,840  - 1 \cdot 98   14,755  - 6$ 21 to 50 hands—	,, Employees	rees   16,615   -2.65   1	16,479 - 0.81	16,160 -1.93	15,840	- 1.98	14,755	-6.8-
Number of Factories $\begin{vmatrix} 883 - 2 \cdot 11 \end{vmatrix} = \begin{vmatrix} 900 & 1 \cdot 92 \end{vmatrix} = \begin{vmatrix} 922 & 2 \cdot 44 \end{vmatrix} = \begin{vmatrix} 903 - 2 \cdot 06 \end{vmatrix} = \begin{vmatrix} 880 - 2 \end{vmatrix}$	Number of Factories							
,, Employees 28,066 -2 08 28,774 2 52 28,960 0 64 28,472 - 1 68 27,232 -4 51 to 100 hands—		rees 28,066 -2 · 08 2	28,774 2.52	28,960 0.64	28,472	- 1.68	27,232	<b>4.4</b> .
		es 303 -2·88	340 12.21	320 -5.88	300	- 6.25	309	8.0
Employees $ 20.888  - 5 \cdot 11   24.177   16 \cdot 02   22.433   -7 \cdot 21   20.963   -6 \cdot 55   21.310   1$	Employees	rees 20,838 -5·11 2			20,963			
Over 100 hands— Number of Factories 247 6 · 46 248 0 · 40 249 0 · 40 260 4 · 42 255 -1	Number of Feeteries	ion 247 6:46	248 0.40	240 0.40	980	4.49	955	1.0
	,, Employees	rees 64,937 1 73 6						

## PROPORTION OF FACTORIES OF DIFFERENT SIZES.

					Pe	rcentag	e to To	tal.			
		192	5-26.	192	6-27.	192	7–28.	1928	3-29.	192	9-30.
Size of Factory	•		88	ļ	8	-			88		es es
		Factories.	Employees	Factories.	Employees.	Factories.	Employees.	Factories	Employees.	Factories	Employees.
Under 4 hands  4 5 to 10 11 to 20 12 to 50 15 to 100 101 and over		25·2 10·7 29·6 15·3 11·8 4·1 3·3	2·6 2·1 10·0 10·9 18·4 13·6 42·4	26·7 10·6 28·8 14·6 11·7 4·4 3·2	2·7 2·0 9·6 10·2 17·8 14·9 42·8	29·1 11·6 27·9 13·3 11·2 3·9 3·0	3·1 2·4 9·9 10·1 18·0 14·0 42·5	31·5 10·1 27·3 13·2 11·0 3·7 3·2	3·1 2·1 9·8 10·1 18·2 13·4 43·3	33·8 11·2 25·0 12·4 10·7 3·8 3·1	3·3 2·4 9·4 9·8 18·0 14·1 43·0
Total	•-•	100.0	100.0	100 · 0	100 · 0	100.0	100.0	100 · 0	100.0	100.0	100 0

Occupations In the following table the persons employed in factories in factories are grouped according to their occupational status:—

#### OCCUPATIONS OF PERSONS EMPLOYED IN FACTORIES.

Occupations.	1924–25.	1925–26.	1926–27.	1927–28.	1928–29.	1929-30.
<u></u>	<del> </del>	<u> </u>	<del></del>		<del></del>	
Working proprietors	7,255	7,254	7,334	7,755	7,302	6,963
Managers, overseers	5,043	5,213	5,580	5.891	5,826	5,797
Accountants, clerks	6,827	6.034	6.519	6,677	6,847	6.500
Engine-drivers, firemen	2,142	2,065	2,036	1,945	1,850	1,850
Workers in factory or	1		•	1		
works	128,706	128,948	137,025	135.425	132.304	127,738
Outworkers	728	736	592	380	240	182
Carters, messengers	2.766	2,394	2.065	1,703	1.660	1,494
Others	691	315	488	581	539	485
Total	154,158	152,959	161,639	160,357	156,568	151,009

Outworkers. The term "outworker" used in the above table relates to factory workers working in their own homes, but does not include individuals working for themselves. The employment of outworkers is regulated by a special provision of the Factories and Shops Act. They are required to register their names and addresses with the Chief Inspector of Factories, and factory proprietors are forbidden to give work to those who are not registered.

Sex distribution in factories. The average numbers of males and females employed in factories and their proportions to the male and female populations, for the years 1920-21 to 1929-30, were as

follows :--

#### EMPLOYMENT OF MALES AND FEMALES IN FACTORIES.

Ma		ales.	Fe	Females.		Total.	
Year.		Number.	Average per 10,000 of Male Population.	Number.	Average per 10,000 of Female Population.	Number.	Average per 10,000 of Total Population
920-21		96,379	1,277	44,364	580	140,743	926
1921-22		97,789	-1,279	47,087	599	144,876	934
1922-23		103,092	1,307	49,533	618	152,625	960
1923-24°		107,578	1.334	48,584	593	156,162	961
1924-25		105,984	1,286	48,174	578	154,158	930
1925-26		104,512	1,246	48,447	573	152,959	908
1926–27		108,969	1,278	52,670	613	161,639	944
927-28		108,068	1,246	52,289	598	160,357	921
928-29	•••	104,648	1,195	51,920	<b>5</b> 86	156,568	889
1929-30		100.135	1.136	50,874	568	151.009	850

Males formed 68.5 per cent. in 1920-21 and 66.3 per cent. in 1929-30 of the total persons employed. The increase during the period 1920-21 to 1929-30 in the number of males employed was 3,756, or 3.9 per cent., and in the number of females employed, 6,510, or 14.7 per cent.

Of the total females in factories 73.1 per cent. are engaged in the textile and clothing industries, and 10.0 per cent. in the preparation of food and drink. The extent of female employment in certain industries is shown in the next table:—

FEMALE EMPLOYMENT IN FACTORIES, 1929-30.

	Number E	Employed.	
Industry.	Males.	Females.	Females per 100 Males.
	· · · · · · · · · · · · · · · · · · ·		
		<del> </del>	<del></del>
Oatmeal, etc.	305	216	70.8
Biscuit	538	511	94 · 9
Discuit	1.062	906	85.3
Jam, fruit, and vegetable canning	1,645	1.452	88.3
Confectionery	913	562	61.5
Tobacco ········	2,950	3,713	125.9
Woollen mills	1.926	6,201	322.0
Clothing, tailoring, etc	508	7,548	1.485 · 8
Dressmaking, millinery	619	5.864	947.3
Underclothing, shirts, ties, etc	537	1.162	216.4
Hats, caps, etc.	1.824	6,171	338.3
Hosiery, knitting	221	302	136.7
Fur · · · · ·		4,933	91.5
Boots and shoes	5,388		25.4
Printing, newspapers, etc	6,254	1,589	82.5
Bookbinding, etc	697	575	
Paper making, Paper bag, etc	918	894	97.4
Sail, tent, rope, twine	545	366	67.2
Chemicals	643	583	90.7
Ammunition and Explosives	339	167	49.2
Upholstery, bedding, etc	617	431	69.9
Match	202	586	290 1
Fancy leather	561	321	57.2
Rubber goods	2,231	1,030	46.2
All other factories	68,692	4,791	7.0
Total	100,135	50,874	50.8

A favorable feature of factory statistics has been the small proportion of children engaged in factories.

Of the male and female employees, boys and girls under 16 constituted 3.74 and 7.90 per cent. respectively in 1929-30, as

against 4 11 and 6 39 per cent, in 1920-21. The number of children employed in factories and their proportions to the total employees are given in the subjoined table for the years 1920-21 to 1929-30:—

#### CHILDREN EMPLOYED IN FACTORIES.

				j	Proportion per cent. of—			
Year.		Boys under 16.	Girls under 16.	Total Children.	Boys to Male Employees.	Girls to Female Employees.	Children to Total Employees	
1920-21		<b>3,</b> 715	2,798	6,513	4.11	6.39	4.86	
<b>19</b> 21–22		3,780	3,120	6,900	4.13	6.71	5.00	
1922–23		4,031	3,163	7,194	4.18	6:48	4.95	
1923-24		4,057	3,422	7,479	4.03	7.15	5 . 03	
1924–25		4,027	3,223	7,250	4.05	6-78	4.94	
1925-26		3,980	3,489	7,469	4.06	7.30	5.13	
1926–27		4,567	4,041	8,608	4:46	7.77	5.58	
1927–28		4,231	3,992	8,223	3.91	7.63	5.13	
1928–29		4,209	4,298	8,507	4.29	8.39	5.70	
1929-30		3,748	4,019	7.767	3.74	7.90	5.14	

Machinery In the following table are shown the number of factories in factories. using mechanical power, the total horse-power of the engines used, and the value of the machinery and plant for the ten years 1920-21 to 1929-30:—

#### MACHINERY IN FACTORIES.

Year.		Year. Number of Factories equipped with Machinery.			Horse-power of Engines.	
				€		
1920-21			5,161	18,179,385	182,143	
1921-22			5,473	21,182,110	191,881	
1922 - 23			5,762	23,994,715	216,427	
<b>19</b> 23-24			6,030	28,223,915	314,561	
1924-25			6,168	32,563,815	374,064	
1925-26			6,321	30,549,130	367,318	
1926-27			6,637	31,580,350	414,992	
1927-28			7,209	32,745,680	403,770	
1928-29	-	·	7,305	33,724,910	446,382	
1929-30	••	. ••	7,419	35,022,535	465,739	

The nature of the power used and the capacity of the machinery in the factories of the State are set out in the next table. Establishments using more than one kind of mechanical power are included once only in the upper half of the table, usually under the power which is principally used. The lower half of the table shows the total horse-power of engines used.

## POWER USED IN FACTORIES, 1920-21 to 1929-30.

		Number of Factories using—							
Year.		Steam.	Gas.	Electricity.	Oil.	Water, Wind, or Horses.	Manual Labour.		
1920–21	 -	941	705	3,128	360	27	1,371		
1921–22		935	666	3,474	364	34	1,280		
1922–23		910	655	3,795	372	30	1,334		
1923-24		885	540	4,174	402	29	1,259		
1924-25		812	476	4,448	403	29	1,257		
1925–26		736	413	4,709	<b>432</b>	31	1,140		
1926-27		678	334	5,141	467	17	1,053		
1927–28		618	334	5,701	509	12	1,036		
1928-29		579	278	5,941	<b>493</b>	14	892		
1929-30		539	<b>≥</b> 3	6,142	490	25	776		

<b></b>	·	Actual Horse-power of Engines.							
Year.		Steam.	Gas.	Electricity.	Oil.	Total.			
1920-21		103.048	19,331	56,602	3,162	182,143			
1921-22		106,882	19,327	62,663	3,009	191,881			
1922-23		112,547	18,968	81,679	3,233	216,427			
1923-24		195,744	18,394	95,340	5,083	314,561			
1924-25		233,290	17,869	97,381	5,380	353,920			
1925-26		235,872	15,422	107,812	8,212	367,318			
1926-27		268,061	13,548	123,359	10,024	414,992			
1927-28		241,956	12,326	137,692	11,796	403,770			
1928-29 .		*274,331	10,886	147,835	13,330	446,382			
192930		+286,164	9,671	155,911	13,993	465,739			

^{*} Includes 26,265 horse-power generated by water.

The predominance of steam is due to its extensive use for the generation of electricity. A consistent increase is shown in the use of electricity which, as a secondary power, should be deducted from the total if the nett horse-power used in factory production is required.

[†] Includes 26,546 horse-power generated by water.

Wages in Pactories. The total amount and the average amount of salaries and wages paid to persons employed in factories are given in the following table for each of the last ten years:—

#### SALARIES AND WAGES PAID IN FACTORIES.

Year.	Proprietors				Wages Factory	Total Salaries and Wages	
	Males.	Females.	Males.	Females.	Males.	Females.	paid.
			Aggrega	te Amounts.			,
1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30	1,538,868 1,590,771 1,887,094 1,954,036 1,965,990 2,032,445	80,876 95,938 102,663 100,829	£ 2,384,372 2,563,467 2,761,045 3,003,855 3,055,257 2,996,929 8,268,208 3,353,582 3,416,012 3,395,311		19,577,822 19,460,304 19,547,974	3,991,353 4,353,680 4,458,982 4,484,904 4,664,463 5,194,577 5,229,167 5,230,117	29,057,052 29,329,400 31,822,589 32,087,051 31,538,586
			Average	Amounts.			
1920-21 1921-22 1922-23 1923-2• 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30	£ s. d.  233 8 11 240 18 4 275 18 6 278 14 11 298 15 8 321 1 8	£ s. d.  111 13 7 124 4 8 141 18 5 137 16 0 139 13 0 153 12 8	£ s. d. 298 19 7 316 18 11 331 10 9 339 19 1 347 18 0 363 7 11 369 19 4 374 11 3 386 10 8	£ s. d. 124 15 2 133 16 4 134 14 8 142 13 5 143 13 7 149 9 3 151 16 8 154 7 7 155 7 7 157 14 10	£ s. d. 185 12 4 202 19 11 204 12 2 212 19 0 214 15 5 218 0 4 223 18 1 227 17 5 226 18 6	£ s. d. 82 5 11 91 2 11 94 16 5 99 7 1 100 19 4 104 2 6 106 12 0 108 14 5 109 15 5 110 2 2	£ s. d. 159 8 4 172 16 9 175 15 9 184 15 11 186 16 4 189 16 5 193 14 1 196 15 9 197 8 3 197 1 6

These figures are based on the number of employees and the wages, etc., paid to them, working proprietors being excluded.

The particulars appearing in the above table reveal continued increases from year to year in the average earnings of all groups with the exception of male factory workers, whose average wage for the year 1929-30 decreased by 18s. 11d. In the average wage of all employees, the largest increase was from the year 1920-21 to 1921-22. The figures for the year 1929-30 show a decrease of 6s. 9d. in the average wage paid per employee.

The method of arriving at the average number of employees since the year 1928-29 (see page 437) would tend to increase the average wage paid to an amount slightly greater than that in previous years.

The average wage for 1929-30 (£197 1s. 6d.) was probably below the average according to the determinations of Wages Boards, and would be mainly accounted for by the fact that the former sum is based on the actual payments to workers, while the latter represents the average of the sums to which they would have been entitled if they had worked throughout the whole year. There is, of necessity, a difference between the two averages, as all hands are not continuously employed, nor are all factories working throughout the whole year.

The cost of production and the value of the output in of production each class of manufacturing industry during the year 1929-30 are given in the subjoined statement:—

## FACTORY COSTS AND OUTPUT, 1929-30.

	Cost	of—		
Raw Materials Used (including Containers).	Fuel, Light, and Power Used.	Salaries and Wages Paid.	Tools replaced, Repairs to Plant, Oil and Water Used.	Value of Output.
1.	2.	3.	4.	5.
		<del>,</del>		
£	£ .	£		£
2,997,212	93,091	799,150	42,772	4,435,297
832,075	45,072	179,681	20,893	1,446,181
870 358	485,116	1.204.146	111,145	3,552,685
	47,457	1,546,277	50,315	4,010,961
6,560,851	364,740	6,012,903	186,138	15,460,865
28,005,403	745,628	4,699,591	243,019	39,257,923
1 1 1	1	h 11.11.11.		
				26,948,594
2,775,995				6,975,549
				310,518
				495,980
865,103	62,507	1,752,662	41,434	3,299,511
	0.004	00.070	1 5 0 1	176,756
	3,924	99,373	1,591	170,750
	95.000	000 754	11 090	2,527,840
1,282,990	27,098	020,70±	11,820	2,021,010
1,971,762	62,341	579,688	85,763	3,648,944
			1,000	131,503
42,711	1,701	56,717	1,390	131,503
919 015	0.011	918 859	3 185	552,078
				5.445,617
				3,786,670
			5 072	347,627
182,526	1,481	00,900	3,012	J = 1,021
66,770,302	3,435,727	30,517,535	1,345,702	122,811,099
	Materials Used (including Containers).  1.  2,997,212 832,075 870,358 1,885,714 6,560,851 28,005,403 14,319,783 2,775,995 133,809 243,269 865,103 45,797 1,282,990 1,971,762 42,711 218,915 1,829,255 1,906,774 182,526	Raw Materials Used (including Containers).  1. 2.  £ £ 2,997,212 93,091 832,075 45,072 870,358 485,116 1,685,714 47,457 6,560,851 364,740 28,005,403 745,628 14,319,783 334,893 2,775,995 146,178 133,809 146,178 133,809 243,269 19,199 865,103 62,507 45,797 3,924 1,282,990 27,098 1,971,762 62,341 42,711 1,701 218,915 1,829,255 1,906,774 118,2526 7,431	Materials Used (including Containers).	Raw   Materials   Used (including Containers).   E

The difference between the sum of the first four columns and the last column represents the amount available for miscellaneous expenses, interest, and profit. The proportions which this margin and the chief items of the cost of production bear to the total value of production in each class of industry are shown in the following table:—

PROPORTIONATE VALUE OF COSTS, ETC., TO PRODUCTION IN FACTORIES, 1929-30.

1		Percent	age of Costs,	&c., to Total	Value of Pro	duction.
Class of Industr		Materials Used, including containers.	Fuel, Light, &c.	Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.	All other Expendi- ture, Interest and Profit.
		%	%	%	. %	%
1. Treating raw r	naterial,	70.	/0	/0	/0	. 70 -
product of pasto	ral pur-					
Suits, &c. 2. Treating oils an	d fats.	67.6	2.1	18.0	1.0	11.3
3. Processes in ston	8. &c.	57.6	3.1	12.4	1.4	25 5
glass, &c.		24.5	13.7	33.9	3.1	24 8
4. Working in wood 5. Metal works, ma	chinery	42:0	1.2	38.5	1.3	17.0
&c 6. Connected with fo		42.4	2.4	38 9	1.5	15 1
drink, &c		71.3	1.9	12.0	0.6	14.2
&c.	Tabiles,	53.1	1.3	20.5		
8. Books, paper, print	ing &co	39 8	$\frac{1}{2}$ .	29.5	0.8	15.3
9. Musical instrumen	te see	43.1	1 1	37.2	1.0	19.9
10. Arms and explosive	I	49.0		34.2	0.3	21.3
11. Vehicles, saddlery,	es harness,	. 1	3.9	23.7	3 <b>.3</b>	20.1
<ol><li>Ship and boat build</li></ol>	ling and	26.2	1.9	53.1	1.3	17.5
repairing 13. Furniture, upholste	ry, and	25.9	2.5	56 2	0.9	14.8
bedding 14. Drugs, chemicals, :	and by-	50.7	1.1	32.8	0.2	14.9
products 15. Surgical and other s	1	54 0	1.7	15.9	2.4	26.0
instruments 16. Jewellery, time-pie		32.5	1.3	43.1	1.1	22.0
plated-ware	co, anu	39.7	1.6	0010	0.0	
<ol> <li>Heat, light, and po</li> <li>Rubber and leath</li> </ol>	wer	33.6	15.8	39.6 15.2	0.6 2.6	$\frac{18.5}{32.8}$
n.e.i.	.01 11 241 6,	50.3	3.1	22.4	2.0	
19. Minor wares, n.e.i.	:	52.2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22 4 25 6	$\begin{array}{c} 2.6 \\ 1.5 \end{array}$	21 6 18 3
Total		51.4	2.8	24.8	1.1	16.9

There are considerable variations in the proportions which the cost of materials and the expenditure on wages bear to the value of the output in the different classes of industries. These are, of course, due to the difference in the treatment required to present the raw material in its manufactured form. Thus in class three the sum paid in wages represents 34 per cent. and the cost of raw materials 25 per cent. of the value of the finished article, whilst in class six the expenditure on wages amounts to 12 per cent. and that on raw materials to 71 per cent. of the value of the output.

In the next table the cost of production, the value of production, the output of factories, and the balance available for 1929-30. profit and miscellaneous expenses are compared for the years 1920-21 to 1929-30:—

## COST OF PRODUCTION AND VALUE OF OUTPUT OF FACTORIES, 1920-21 to 1929-30.

			Cost of P	roduction.		
Year.		Materials.	Fuel, Light, and Power.	Salaries and Wages.	All other Expenditure, Interest, and Profit.	Total Value of Output.
		£	£	£	£	£
1920-21		65,401,425	2,184,096	21,377,216	17,045,557	106,008,294
1921-22	••	60,352,561	2,329,760	23,846,495	19,714,365	106,243,181
1922-23		62,658,163	2,443,681	25,547,192	20,637,307	111,286,343
1923-24		62,217,874	2,803,239	27,472,084	21,428,730	113,921,927
1924-25	• •	65,205,233	2,964,635	29,057,052	20,950,478	118,177,398
1925-26		67,164,445	3,156,382	29,329,400	20,336,212	119,986,439
1926-27		69,816,935	3,392,448	31,822,589	22,365,979	127,397,951
1927-28		69,637,778	3,433,923	32,087,051	23,306,565	128,465,317
1928-29		70,100,456	3,361,298	31,533,586	22,902,123	127,897,463
1929-30		66,770,302	3,435,727	30,517,535	22,087,535	122,811,099

These figures are reduced in the succeeding statement to their proportionate value of the total output.

PROPORTION OF OUTLAY TO OUTPUT OF FACTORIES, 1920-21 to 1929-30.

	· _ I	Proportion of O	utlay to Out	out.		
Үеаг.	Materials.	Fuel, Light, and Power.	Salaries and Wages.	Other Expenditure, Interest, and Profit.	Total.	
1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1926-27 1928-29	% 61 · 7 56 · 8 56 · 3 54 · 6 55 · 2 56 · 0 54 · 8 54 · 2 54 · 8 54 · 4	%0 2·2 2·2 2·5 2·5 2·6 2·7 2·6 2·8	%20·2 22·4 23·0 24·1 24·6 24·4 25·0 25·0 24·7 24·8	% 16·1 18·6 18·5 18·8 17·7 17·0 17·5 18·1 17·9 18·0	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	

The apparent decrease since 1923-24 in the percentage available for profit and miscellaneous expenses, as shown in the last table, is largely accounted for by the fact that the amount of salaries and wages includes for those years the sums drawn regularly by working

proprietors amounting in the successive years to £1,612,911, £1,671,647, £1.933.032, £2,056,699, £2,066,819, and £2,129,695.

The ratio of salaries and wages to the value of the output of factories was 24.8 per cent. on the average of the last five years, as against 22.9 per cent. in the period 1920-21 to 1924-25. The cost of materials was 54.8 per cent. of the value of output in the period 1925-26 to 1929-30, as compared with 56.8 per cent. in the years 1920-21 to 1924-25. The proportionate outlay on fuel, light, and power was 2.3 per cent. in the earlier and 2.7 per cent. in the later period. The balance available for miscellaneous expenses, rent, interest, and manufacturers' profit was £17 14s. 4d. in every £100 of the total output value in the period 1925-26 to 1929-30, as compared with £17 19s. 2d. in the preceding five-year period.

Capital Invested in manufacturing plant and premises. In the following statement the amount of capital invested in machinery and plant and land and buildings used in connexion with the various classes of manufacturing industries is shown for the year 1929-30:—

MACHINERY, PLANT, LAND AND BUILDINGS USED IN MANUFACTURING INDUSTRIES, 1929-30.

Class of Industry	Value of Machinery and Plant.	Value of Land and Buildings.
Treating raw material, product of pastoral	£	£
pursuits, &c	657,120	873,740
Treating oils and fats, animal, vegetable, &c	313,695	273,515
Processes in stone, clay, glass, &c	1,277,290	1.251.135
Working in wood	1,030,225	1,069,070
Metal works, machinery, &c	4,247,865	<b>5,141,34</b> 5
Connected with food and drink, &c	6,475,895	7,449,105
Clothing and textile fabrics, &c	4,440,205	7,592,185
Books, paper, printing, &c	2,743,925	3.126.735
Musical instruments, &c	56,955	166,890
Arms and explosives	315,425	451,230
Vehicles, saddlery, harness, &c	1,025,460	2,676,300
Ship and boat building and repairing	110,150	193,115
Furniture, upholstery, and bedding	280,655	989,835
Drugs, chemicals, and by-products	1,253,655	1,184,785
Surgical and other scientific instruments	24,645	101,505
Jewellery, time-pieces, and plated-ware	71,695	282,015
Heat, light, and power	9,320,145	2,871,300
Rubber and Leatherware, n.e.i.	1,306,610	1,151,685
Minor wares, n.e.i	70,920	140,085
Total	35,022,535	- 36,988,485-

The capital invested in plant, buildings, &c., used in connexion with three classes of industries—food and drink; clothing and textile fabrics; and heat, light and power—amounted, in the year under review, to £38,148,835, or more than one-half of the total for all manufacturing industries.

The values of machinery and plant and of land and buildings used in connexion with manufacturing industries are shown in the next table for the years 1920-21 to 1929-30:—

## MACHINERY, PLANT, LAND AND BUILDINGS USED IN MANUFACTURING INDUSTRIES, 1920-21 to 1929-30.

	Year.				Value of Machinery and Plant.	Value of Land and Buildings.
					£	£
1920–21	• •	• •		 	18,179,385	17,313,350
1921-22				 	21,182,110	19,810,170
1922 23				 	23,994,715	22,428,525
1923-24				 • • •	28,223,915	24,972,560
1924-25				 	32,563,815	28,468,160
1925–26		٠.	- 5	 	30,549,130	29,847,370
1926-27			,	 	31,580,350	32,269,655
1927-28				 	32,745,680	34,761,340
1928-29				 	33,724,910	36,184,460
1929-30				 	35,022,535	36,988,485
100	•					1

It will be seen from these figures that the values of machinery and plant and land and buildings increased by 103 per cent. between 1920–21 and 1929-30.

Accidents in factories is given for the last ten years. The particulars in the table relate to establishments which came within the scope of the Factories Acts in force in the years specified, and not to those classified for statistical purposes in the preceding tables.

The large increase shown in the number of accidents since 1919 is mainly attributable to an amendment of the law, which made compulsory the reporting of accidents. Previously, only those of a serious nature were reported.

## ACCIDENTS IN FACTORIES, 1919 to 1929.

<b>Үеат.</b>		Number of Employees.	Number of Accidents.	Percentage of Accidents to Number of Employees.		
1919	•••	116,369	362	•311		
1920		116,846	862	.737		
1921		117,633	830	•705		
1922		126,630	787	621		
1923		128,915	1,034	802		
1924	•• }	129,147	1,052	.814		
1925		128,013	996	•778		
1926		135,510	1,252	924		
1927		136,022	1,348	991		
1928	••	137,244	1,224	•891		
1929		136,025	1,129	829		

Manufactures—The foregoing tables do not include particulars relating to work of various kinds done by the Penal Department at Pentridge and the Royal Victorian Institute for the Blind. At the former establishment the manufacture of wire netting, clothing, brushware, boots, mats, blankets, flannel, underclothing, and printing are carried on. The estimated value of the output for 1929-30 was £67,503, and of the materials used, £52,330. The articles produced are used principally by Government Departments. The work carried on by the latter is the manufacture of brushware, basketware, mats and matting, and knitted goods, and gives employment to 153 persons (135 males and 18 females). The value of the work turned out for the period under review was £31,802.

Value of The value of all articles produced or manufactured in Victoria has been compiled from actual returns or estimates in the office of the Government Statist, and the results are set forth in the following table:—

VALUE OF VICTORIAN PRODUCTION, 1925-26 to 1929-30.

44					1 17
		3 . 3-	Value in—	, ~1), <u>e</u> .t (1)	
Produce.			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Til TOIL	<u> </u>
Troquee.				100	
	1925-26.	1926-27.	1927-28.	1928–29.	1929-30.
A Land of the Land		1 11 77	7		Tr
Cultivation.		££	£	£	
Carronson.			, æ	Z	£
Wheat	6,665,150	9,546,812	4,724,369	8,364,675	3,559,063
Oats	684,320		688,804	627.521	554.547
Barley, malting	202,206		184,824	151,726	203,999
,, other	87,960		112,503	70,778	96,203
Maize	172,825	152,055	121,368	136,067	112,686
Other Cereals	58,525		48,995	36,000	45,111
Grass and Clover	l '	7.4	100.07	1	
Seed	2,749		2,076	9,380	9,636
Potatoes	1,309,470		388,537	1,189,349	691,273
Onions	267,793	110,839	188,186	187,233	74,704
Other Root Crops	18,297	15,161	14,759	13,163	10,933
Hay	3,497,253		3,683,272	3,502,862	2,998,282
Straw	63,988		66,904	49,427	53,710
Green Forage*	539,365		474,475	535,755	846,265
Tobacco	47,160	57,700	35,280	39,510	54,660
Grapes, not made	1 1 1	1 to 1 to 1			
into wine, raisins,	77,333	74.889		F0 010	
&c	73,452		81,421	50,813	31,038
	676,965	99,080	76,100	82,873	96,451
Currants	93,972	1,195,183 182,536	623,241 152,171	857,975	797,736
Wine	177,371	254.184	152,171	273,186 84,239	186,406
Hops	54,193	16,074	50,262	36.800	82,182 38,120
Other Crops	125,788	109,022	168,618	119,397	144,663
Fruit grown for sale	120,100	103,022	,100,010	110,004	144,000
in orchards and					
gardens	1,247,723	970,831	1,189,356	1.093,434	927,723
Fruit in private		U 6775577	2 (2777)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
orchards and gar-		1	1 4 4	⊈	and a first time
dens	12,070	9,570	10,520	8,500	9.100
Market Gardens	830,450	887.550	949,200	931,500	1.060.500
Less Deductions	<b>-3</b> ,283,560	-4,822,130	-5,616,588	-4,087,508	<b>-3</b> ,699,467
Total	13,702,818	15,744,992	8,570,865	14,364,655	8,985,524
TOURI	. 0,102,010	10,174,004	0,070,000	12,004,000	0,900,5Z4
		* **		<u> </u>	er en en en en en en en en en

^{*} Exclusive of area under sown grasses.

VALUE OF VICTORIAN PRODUCTION, 1925-26 to 1929-30-continued.

Produce.			Value in—	· · · · · · · · · · · · · · · · · · ·	
	1925–26.	1926-27.	1927-28.	1928-29.	1929-30.
Dairying and Pastoral.	£	£	£	£	£
Milk consumed in	Ì	Ì	ļ	,	
natural state	2,333,000	2,326,800	2,184,900	2,025,300	1,858,000
Butter made	6,182,120	6,233,400	6,675,700	7,682,200	6,901,330
Cheese made	227,660	270,620	244,140	325,600	378,500
Cream made (not for	184,350	154,880	174,610	212,800	227,470
butter) Concen-	104,000	.104,000	112,010	212,000	221,410
trated, and Powdered					
Milk	1,437,660	1,498,060	1,906,720	1,713,600	1,557,880
Cattle	3,707,000	2,380,830	3,308,880	4,203,500	4,157,000
Pigs Sheep (without wool)	1,720,740 3,316,660	1,343,750 2,585,770	1,189,410 3,740,310	1,622,700 3,468,000	1,602,200 3,315,000
Wool	7,082,820	7,876,683	9,701,660	10,252,002	5,694,019
Less Deductions	-1,771,800	-2,340,426	-2,701,730	-2,368,289	-2,555,965
Total	24,420,210	22,280,367	26,424,600	29,137,413	23,135,484
Mining.					
Gold	200,958	208,778	163,699	144,068	111,609
Coal	762,521	846,697	982,533	933,408	991,422
Stone from Quarries (in- cluding limestone)	666,765	700,200	652,800	602,900	624,613
Other Metals and	000,700	,00,200	10_,000		l.
Minerals	37,284	124,567	156,246	113,765	105,602
Total	1,667,528	1,880,242	1,955,278	1,794,141	1,833,246
Forest Produce.		- 4			
Timber (Forest Saw-		1.0			
mills only)	711,970	863,493	782,700	676,200	681,625
Firewood (estimated)	1,071,000	888,400	910,000	939,000	936,400
Bark for Tanning	129,490	136,906	107,700	98,380	86,589
Total	1,912,460	1,888,799	1,800,400	1,713,580	1,704,614
Miscellaneous.					200
Honey and Beeswax Poultry production (es-	41,694	47,282	60,140	82,854	60,125
timated)	4,515,400	4,819,500	4,760,000	4,295,000	4,688,000
Rabbits and Hares	697,665	508,340	679,230	820,820	609,470
Fish	187,851	167,461	185,840	173,870	223,587
Total	5,442,610	5,542,583	5,685,210	5,372,544	<b>5,531,182</b>
Motol Volve of Deim			100		
Total Value of Primary Products	47,145,626	47,336,983	44,436,358	<b>52,</b> 382 <b>,3</b> 33	41,190,000
Manufacturing— Added Value*	46,006,461	51,005,430	51,565,291	51,062,027	49,403,185
Grand Total	93,152,087	98,342,413		103,444,360	90,593,185

[•] Exclusive of value of output of butter and cheese factories, and forest saw-mills (as regards Victorian timber), which is included above under the headings "Dairying and Pastoral" and "Forest Produce," respectively.

Deductions made from the total value of "Cultivation" include cost of freight and handling charges, together with cost of bags, seed, manure, spraying material, and fodder used in the production of crops. In the case of "Dairying and Pastoral" production the deductions consist of cost of freight, handling charges, and wool packs, and the value of hay, bran and pollard, green fodder, and root crops used as fodder.

The inclusion of bakeries resulted in an increase in added value in manufacturing of £1,251,524 in 1927-28, of £1,334,716 in 1928-29, and of £1,225,275 in 1929-30, for which allowance must be made when comparing the figures for the last three years with those of previous years.

The values of different kinds of production per head of the total population in each of the last five years were as follows:—

VALUE OF PRODUCTION PER HEAD OF POPULATION, 1925-26 to 1929-30.

	·	Value of Produce per head in—												
Produce.	1925–2	26.	19	26-2	27.	19	27-2	28.	19	28-1	29.	19	29-3	30.
	£ s.	d.	£	8.	d.	£	8.	d.	£	8.	d.	£	ð.	đ.
Cultivation	8 2	9	9	4	0	4	18	5	8	3	2	5	1	1
Dairying and Pastoral	14 10	0	13	0	4	15	3	6	16	10	11	13	0	. 5
Mining	0 19	10	1	1	11	1	2	5	1	0	. 4	1	0	8
Forest	1 2	8	1	2	1	1	0	8	0	19	6	0.	19	2
Miscellaneous	3 4	8	3	_	9	3	5	4	3	1	0	3	2	. 3
Total Primary Production	27 19	11	27	13	1	25	10	4	29	14	11	23	3	7
Manufactures	27 6	5	29	15	11	29	12	3	28	19	11	27	16	0
Grand Total	55 6	4	57	9	0	55	2	7	<b>5</b> 8	14	10	50	19	7

Factory schedules for the year 1929-30 included in the on factory pay-rolls on pay days nearest the 15th day carters and messengers and all others engaged in work conThe information received has been tabulated and the monthly

## MONTHLY EMPLOYMENT

A CONTRACTOR OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF TH		1 - 2			· · · ·
				Avera	ge Number
Industry.	· · · · · · · · · · · · · · · · · · ·	July.	August.	Septem- ber.	October.
		627	653	699	745
Aerated waters		2,746	2,626	2,700	2,610
Agricultural implements		91	94	97	101
Aircraft building	••	158	152	150	154
Arms and ammunition		149	152	152	147
Art metal works		530	496	497	511
Bacon	• • • • • • • • • • • • • • • • • • • •	2,422	2.457	2,483	2,513
Bakeries	••	113	117	117	117
Bags and sacks		162	169	181	188
Basket, wickerware		829	814	822	817
Bedding, upholstery		987	986	992	1,024
Biscuits Boiling down, bone mills		283	284	285	288
		7 046	1,236	1.249	1,257
Bookbinding Boot accessories		430	434	434	425
Boots and shoes		0.555	9.868	10,376	10,883
Boot repair		601	281	283	286
Boxes and cases		970	386	387	386
Brass and copper		1.092	1.143	1,168	1,158
Breweries		1_128	_ 1.128	1.118	1,150
Bricks		868	933	994	1,020
Brooms and brushware		969	265	264	265
Butter, cheese, &c		2,236	2,255	2,395	2,593
Chaffcutting		100~	339	351	336
Cement and cement goods		835	892	905	913
Chemical fertilizers		770	734	759	757
Chemicals, drugs		1,226	1,243	1,279	1,288
Clothing		7,637	7,790	7,921	8,076
Coachbuilding		1,298	1,297	1,311	1,324
Confectionery		3,038	2,939	2,951	3,096
Condiments, coffee, &c.		627	644	646	665
Cooperage			256	264	268
Cornflour, oatmeal, &c.			543	532	525
Cotton mills	j		498	526	535
Cutlery		119	_117	116	113
Diesinking			151	146	144
Distilleries			168	121	106
Docks and slips			284	298	273
Dressmaking		,	7,804	8,018	8,037
Dried fruit			316	270	293
Dyeworks			368	376	386
Electric light and power		1,191	1,179	1,227	1,231
Electrical apparatus		· · · · · ·	1,397	1,366	1,335
Electroplating			579	558	562
Engineering		. 5,363	5,560	5,694	5,582

particulars to be furnished data relating to the number of employees of each month, including managers, clerks, engine-drivers, operatives, nected with manufacturing.

totals for each industry are set out in the following table :-

## IN FACTORIES, 1929-30.

of Employees in-

						1 7	
November.	December.	January.	February.	March.	April.	May.	June.
756	817	858	918	785	618	573	531
2,694	2,554	2,627	2.621	2,474	2,406	2,458	2,582
96	97	98	99	99	99	98	96
146	148	147	150	148	142	138	141
152	152	150	151	151	141	122	115
520	541	521	519	528	532	532	527
2,514	2,520	2,492	2,494	2,493	2,480	2,474	2,464
117	108	110	109	114	113	119	112
198	196	191	185	164	148	98	134
840	842	812	824	813	790	761	699
1,071	1,114	1,049	1,064	1,039	1,043	1,025	975
287	283	281	281	282	265	262	254
$1,\!257$	1,258	1,239	1,240	1,221	1,209	1,219	1,213
422	401	393	428	411	404	383	∈368
10,971	9,506	8,101	9,621	9,961	9,647	9,278	9,032
287	283	281	284	285	288	286	284
398	417	408	423	416	407	374	371
1,144	1,192	1,112	1,058	1,018	959	904	857
1,191	1,211	1,196	1,195	1,178	1,161	1,115	1,111
962	991	931	943	961	923	708	619
262	269	258	258	259	251	257	257
2,643	2,601	2,473	2,353	2,251	2,189	2,052	1,954
329	348	375	396	394	381	375	367
921	771	845	832	882	723	677	676
765	747	770	804	1,278	1,067	851	653
1,304	1,265	1,204	1,186	1,189	1,180	1,179	1,183
8,124	8,087	7,470	7,557	7,584	7,561	7,317	6,998
1,331	1,337	1,294	1,291	1,237	1,212	1,186	1,161
3,125	3,133	2,848	2,963	2,784	2,910	3,026	3,021
: 653	653	632	636	605	632	642	636
$\frac{263}{515}$	270	261	262	259	242	244	241
515	501	482	481	491	509	531	531
525	531	538 111	543	541	518	486	517
114	113	147	113	113	119	118	110
146 103	146 100	69	$\begin{array}{cc} -152 \\ 111 \end{array}$	151	150	149	146
$\begin{array}{c} 103 \\ 252 \end{array}$	277	294	$\frac{111}{266}$	126	134	133	146
7,994	7,578	6.954	7,569	$egin{array}{ccc} 277 &   \ 7,791 &   \end{array}$	267	259	263
292	265	295	7,569 424		7,391	7,261	6,803
397	203 387	388	403	975 395	1,076	798	488
1,230	1,235	1,246	1,253	1,216	399	391	367
1,353	1,360	1,408	1,233	1,210	1,236	1,243	1,250
585	596	531	531	520	$1,558 \\ 539$	1,553	1,463
5,531	5,486	5,532	5,468	5,334		546	545
0,001	0,100	0,002	- 0,200	0,004	5,099	4,941	4,956

## MONTHLY EMPLOYMENT IN

			Avera	ge Numbe
Industry.	July	. August.	Septem- ber.	October.
Explosives	35	2 358	358	357
Fancy leather (see leather belting)	1			
	42	5 405	408	543
<u> </u>	89	3 871	850	811
	1,73	9 1,819	1,866	1,885
	18	8   197	185	194
	2,24	7 2,240	2,274	2,328
· '	39	9 405	410	413
	97	0 966	898	926
~ ·	76	2 891	956	925
÷ . v	1,65	8 1,708	1,708	1,682
	15	6 167	174	205
~ , Y, , X	29	4 300	304	301
~ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	4.12		4,230	4,221
T	1.06		1,071	1.134
	39	-   /	418	433
· · · · · · · · · · · · · · · · · ·	3,37		3,465	3,487
THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN THE COLUMN	7,26		7,404	7,564
7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60		684	685
<b>~</b> .	1.5		134	131
	- 00		321	321
37			58	57
Margarine			729	750
		. ,	965	1,427
220 P	0.0		264	265
<del></del>			35	
Metallurgical	95		1	33
Metal works, other			387	378
Modelling, plaster sheets	57		581	573
Monumental	41		432	442
<del>-</del>	1,85		1,978	2,055
Motor repairs, assembling	3,55		3,558	3,681
Musical instruments	48		484	481
Nails	.   17	- 1	177	175
	2,05		2,112	2,090
Optical and scientific instruments		2 129	127	127
Oil and grease	16		176	182
Paper, paper bags	1,78	5   1,787	1,832	1,843
Paints and varnishes	9	6 94	95	95
Perambulators	13	5 132	133	136
Photo engraving	31	6 315	316	327
Pickles, sauces, vinegar	28	5 251	277	282
Picture framing	7	4 73	74	72
Pipes and pottery	72		753	750
Printing	5,23		5,325	5,372
Railway workshops	7,00		6,863	6,604
Rope, cordage		1 715	713	699
Rubber goods	3,41	6 3,337	3,456	3,545
Saddlery, harness		3 128	120	123
Sail, tent, tarpaulin	. 20		204	216
Sausage skins		4 244	230	313

FACTORIES, 1929-30—continued.

οf	Em	olov	ees	in

November.	December.	January.	February.	March.	April.	Мау.	June
356	357	350	353	357	358	358	360
623	405	386	421	391	366	387	410
782	890	1,022	924	881	843	859	832
1,934	1,928	1,727	1,652	1,602	1,422	1,341	1,345
191	198	198	201	203	205	201	192
2,351	2,359	2,289	2,223	2,175	2,015	1,958	1,841
413	427	451	511.	511	510	510	464
904	909	908	899	888	886	884	88'
934	889	793	696	711	730	763	73
1,715	1,645	1,638	1,668	1,620	1,484	1,569	1,64
230	241	257	270	244	187	161	153
307	317	304	397	305	300	298	28
4,018	3,942	3,790	3,819	3,726	3,622	3,495	3,39
1,196	1,456	2,807	3,346	3,669	3,515	2,006	1,20
443	447	435	410	400	386	390	36
3,497	3,494	3,258	3,147	2,956	2,687	2,555	2,42
7,534	7,666	7,813	8,190	8,265	8,179	8,148	8,02
737	751	.737	757	756	753	661	62
123	116	129	.135	117	106	107	8
324	315	255	222	214	264	303	29
<b>59</b>	59	56	56	56	56	61	5
769	781	790	792	819	861	856	84
1,468	1,149	896	1,004	715	732	580	44
263	259	255	248	237	229	326	22
.34	35	36	36	36	36	35	3
381	391	383	383	374	353	351	34
588	586	555	524	535	476	459	43
445	455	430	438	445	403	402	39
2,029	1,927	1,899	1,683	1,747	1,669	1,631	1,50
3,631	3,660	3,470	3,564	3,479	3,366	3,216	3,13
464	462	424	447	428	425	416	42
171	162	175	171	165	149	153	14
2,092	2,118	2,092	2,094	2,092	2,076	2,066	2,05
131	128	126	126	126	127	125	12
162	163	175	173	162	149	123	11
1,851	1,842	1,816	1,713	1,672	1,729	1,716	1,65
99	99	99	95	. 88 , .	85	81 ;	8
137	139	130	124	122	119	117	11
326	327	333	330	320	316	308	28
259	268	286	294	316	304	308	28
74	71	68	71	68	70.	70	7
755	745	. 756	753	744	-718	694	67
5,379	5,305	5,200	5,206	5,195	5,142	5,162	5,09
$6,\!439$	6,395	6,317	6,284	6,236	6,191	6,151	6,14
682	632	613	647	668	663	722	72
3,363	3,299	3,160	3,266	3,287	3,116	2,623	2,42
106	116	123	130	121	116	114	10
215	227	220	215	210	201	194	19
327	299	263	273	235	239	203	19

#### MONTHLY EMPLOYMENT IN

		-			Avera	ge Numbe
Indu	stry.		July.	August.	Septem- ber.	October.
Shirts, ties, scarves		 	2,500	2,576	2,645	2,738
Soap and candle		 	663	659	644	656
Stoves, ovens		 	412	424	441	454
Surgical instruments		 	96	95	94	91
Tanneries		 	1,862	1,894	1,887	1,858
Tinsmithing		 	1,975	1,997	2,010	2,106
Tiles		 	476	498	543	566
Tobacco		 	1,445	1,460	1,456	1,445
Umbrella		 	129	123	119	125
Underclothing, corset		 	3,564	3,741	3,841	3.960
Waterproof clothing		 	204	213	236	234
Wireworking		 	402	404	410	417
Woodturning		 	509	506	535	517
Woollen mills			• 6,780	6,709	6,667	6,645
Window blinds			40	39	42	42
Others		 	1,203	1,261	1,278	1,347

## BUILDING STATISTICS, 1929-30.

In view of the great importance of statistics of building and construction, their collection was undertaken in Victoria in 1929. Owing, however, to the obvious incompleteness of the returns received, the information obtained was not considered satisfactory, and very few details were published. The data received from builders covering their operations for the year ended 30th June, 1930, showed evidence of much greater care in compilation, and are considered worthy of publication in full detail.

The particulars given below are derived from an analysis of figures supplied by 1,050 builders. The results of the tabulation when compared with somewhat similar data obtained from an independent source indicate that the field of inquiry has been fairly completely covered.

The value of building work done in each of the past two years, according to the returns received, is as follows:—

#### VALUE OF BUILDING WORK.

		1928–29.	1929-30.
New buildings Repairs and additions Other construction		£ 5,747,671 519,243	£ 5,025,237 1,041,503 235,328
Total	 	6,266,914	6,302,068

## FACTORIES, 1929-30—continued.

of	Employees	in-

November.	December.	January.	February.	March.	April.	May.	June
						· · · ·	-
2,757	2,676	2,557	2,570	2,485	2,355	2,344	2,314
639	654	606	633	633	645	637	622
433	431	432	425	415	375	376	356
93	93	90	91	89	- 88	86	87
1,827	1,670	1,703	1,835	1,816	1,727	1,649	1,586
2,105	2,168	2,126	2,059	1,966	1,838	1,763	.1,718
567	513	593	456	470	444	431	390
1,430	1,461	1,455	1,472	1,448	1,479	1,468	1,474
117	111	125	107	105	117	108	111
3,866	3,906	3,861	3,883	3,843	3,719	3,675	3,653
247	246	239	252	263	261	261	245
427	424	415	425	422	418	406	387
524	515	507	549	556	529	522	481
6,610	6,545	6,574	6,615	6,656	6,532	6,403	6.416
42	44	45	46	46	43	46	44
1.262	1,272	1,210	1,314	1,300	1,356	1,283	1,314

A rough check of the figures for 1929-30 may be obtained by comparing therewith the value of buildings for which permits were granted by municipal authorities in the Greater Melbourne area during the same period. Particulars in regard to such permits are as follows:—

## BUILDING PERMITS GRANTED, 1929-30.

· · · · · · · · · · · · · · · · · · ·			 		
	i sir			Number.	Value.
Dwellings Other buil Alterations	dings s and ad	 ditions		2,875 2,980 3,092	2,828,000 1,264,555 904,959
	3715	Total			4,997,514

The two sets of figures are not, of course, strictly comparable since in one case they relate to all building work done within the State, and in the other case to the permits to build granted within the metropolitan area.

The number of persons employed and the total salaries and wages paid are shown hereunder.

Perso	ns Empl	oyed.		Number.	Salaries and Wages Paid.	Average Salary or Wage.	
					£	£ s. d.	
Working propr	ietors			1,075	258,878	240 16 4	
Managers Clerks—	••		••	134	47,880	357 6 <b>3</b>	
Male				72	13,789	191 10 3	
Female				41	4,681	114 3 5	
Others				5,476	1,112,280	203 2 5	

The average wage paid to "Others," in which term is included all workers directly employed by the builders, is low, probably because work had been intermittent on account of a depression which prevailed in the building industry during the period. The following statement shows the payments to sub-contractors:—

## PAYMENTS TO SUB-CONTRACTORS.

Plumbers Painters Electricians Joiners			£ 230,325 138,971 92,561 123,806	Bricklayers Tilers Others	••		£ 116,155 92,281 555,788
Jomers	••	••	120,000	Total	••	••	1,349,887

The term "Others" in this statement includes contractors for excavations, concreting, asphalting, fibro-cement and plaster work, plastering, &c., and where certain builders have been unable to dissect their costs the total has been included under this heading. The term "subcontractor" is intended to mean sub-contractor for "labour and material" only. Persons compiling returns were instructed to include contractors for "labour only" under the heading of "persons employed," and the amount of the contract under "wages paid."

Materials used has been, in most cases, carefully dissected, but some builders have been unable to give the details asked for. This is regrettable, as it is important that

complete statistics in regard to materials used should be available. Where the details could not be supplied it was necessary to include the total cost of all materials used under the heading of "Other materials." The value of the materials used is shown below:—

•	<u></u>	М	aterials.			Value.
					-	
	10.00				}	£
	$\mathbf{Timber}$				1	1,108,896
	Bricks					330,423
	Tiles				[	81,483
	Cement and	lime		• •		186,623
·	Other mater		••	• •		1,482,196
	er ei e	Tot	al		-	3,189,621

In addition to payment for wages, materials, and sub-contracts, there are numerous other expenses incidental to building, such as fuel, insurance, building fees of various kinds, &c. These have been included under the heading of "Other expenses," and total £81,817.

Capital invested in plant and machinery amounted to £136,139, and in land and buildings used as workshops to £106,246.

The following table is an analysis of the buildings completed during the year. As some of these buildings were doubtless commenced in the previous year, the total value is not a measure of the value of building construction for the year 1929-30. The table published at the beginning of this review purporting to show value of work done is designed for this purpose.

#### BUILDINGS COMPLETED DURING 1929-30.

						Number.	Value.
Business proof	lings	••	••	••	••	361	£ 1,473,018 835,360
Dwellings— Brick Wood				,		927 1,727	1,215,338 1,252,667
		Total V	alue				4,776,383

Information collected with regard to dwellings was confined to those constructed of brick and of wood as representative of the most common types of houses built in Victoria.

The table hereunder summarizes the result.

## DWELLINGS CONSTRUCTED, 1929-30.

Number of Rooms.	Brick	Dwellings.	Average Value per	Wooden	Average Value per		
Tumor or Rooms.	Number.	Value.	Dwelling.	Number.	Value.	Dwelling.	
2.4		£	£		£	£	
Three rooms	14	7,194	514	66	22,759	345	
Four rooms	58	49,752	858	416	258,295	621	
Five rooms	524	526,462	1,005	1,097	828,360	755	
Six rooms	209	292,107	1,398	120	107,901	899	
Seven rooms	43	81,304	1.891	17	17,256	1,015	
Eight rooms	32	69,221	2,163	7	9,374	1,339	
Nine rooms	14	35,408	2,529	2	3,114	1,557	
Ten rooms	7	22,318	3,188				
Over ten rooms	26	131,572	5,060	, <b>2</b> .	5,608	2,804	
	927	1,215,338	1,311	1,727	1,252,667	725	
						100	